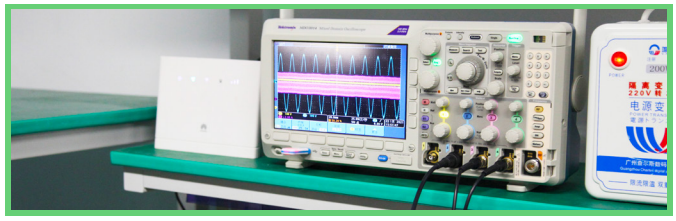
LIVOLTEK

Power Your Home With Green Energy

About Livoltek

LIVOLTEK is one of the leading solar product manufacturers and solution providers worldwide. As a member company of Hexing Group, which is established in 1992 and listed on the Shanghai Stock Exchange (603556), we have natural advantages in the smart grid and new energy industry of more than 90 countries, with cutting edge technology, global supply chain, and worldwide service network.

We are committed to providing high-quality solar power for global customers. Our comprehensive portfolio includes All-in-one Energy Storage System, grid-tied inverters, off-grid inverters, hybrid inverters, storage batteries, EV chargers, and monitoring systems (Web and APP) for remote management and expertise diagnosis.



Global Network - Worldwide Service

LIVOLTEK concentrates on green energy innovation. We are dedicated to giving our customers better quality, more effective, and more enjoyable energy use experiences.

With offices and warehouses all over the world, as well as the most experienced local technical team, LIVOLTEK is able to provide our global customers with high-quality solar goods and one-stop energy solutions, as well as faster local delivery and superior local support.

30GW+

Inverters Production Capacity

200+

Senior Engineers& Specialists

Contents

All-in-one Energy Storage System

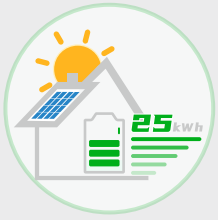
Hyper-3000(A)/3680(A)/4600(A)/5000(A)/6000(A)

The LIVOLTEK All-in-one ESS combines a hybrid inverter and low-voltage batteries to help you reduce your electricity bills while maximize energy independence from the grid. It is packed with benefits such as greater energy harvest from PV modules, compact design saving your space, and its slim appearance fits your house aesthetics. In addition, plug&play and free online monitoring enable faster installations, quicker site mapping to the monitoring platform and easier maintenance with minimized efforts.

Features

- Flexible and easy to expand
- Natural cooling, extremely quiet
- 150% oversized, 150% yield
- Smart and easy operation
- Intelligent charging and active balance
- Fanless design, quiet and long lifespan

Elegant Modular and Unified Design



Flexible Storage Capacity up to 25 kWh

Export Control and Time-of-use Shifting

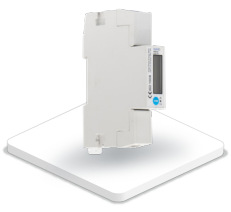
Maximized Self-consumption

Compatible Products

Residential Lithium Battery

Smart EV Charger

Wi-Fi Dongle



Smart Meter

Monitoring System

Specifications

Inverter Model	Hyper-3000	Hyper-3680	Hyper-4600	Hyper-5000	Hyper-6000
PV Input					
Max. PV Input Power	4500Wp	5520Wp	6900Wp	7500Wp	7500Wp
Max. PV Input Voltage	600V				
MPPT Voltage Range	125~550V				
Max. PV Current	14A	14/14A	14/14A	14/14A	14/14A
Max. Short Circuit Current	17.5A	17.5/17.5A	17.5/17.5A	17.5/17.5A	17.5/17.5A
No. of MPPTs/Strings per MPPT	1/1	2/1	2/1	2/1	2/1
AC Output @ Grid					
AC Input Voltage Range/Frequency	186~290Vac/50Hz or 60Hz				
Nominal AC Power	3000W	3680W	4600W	5000W	6000W
Nominal AC Current	13.0A	16.0A	20.0A	21.7A	26.1A
THDi,Rated Power[%]	<3%				
EPS Output @ Off Grid					
EPS Output Voltage/Frequency	220Vac/50Hz or 60Hz				
Continuous Output Power (@25C)	3kVA	3.68kVA	4.6kVA	5kVA	6kVA
EPS Output Current	13.0A	16.0A	20.0A	21.7A	26.1A
Peak Power	1.1 x Pnom, 60 Sec; 1.5 x Pnom, 100ms				
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)				
Waveform	Pure Sinusoidal Wave				
THDv,Rated Power[%]	<3%				
Battery Input					
Battery Type	Lithium Battery				
Battery Voltage	40~60V				
Galvanic Isolation for Battery	Yes				
Max.Charge Current of Inverter	60A	80A	100A	100A	125A
Max.Discharge Current of Inverter	60A	80A	100A	100A	125A
BMS Communication	CAN				
Protection	Over Voltage, Under Voltage, Over Current, Short Circuit, Over Temperature				
Efficiency					
Max. Efficiency	97.6%	97.8%			
Euro Efficiency	97.1%	97.4%			
Battery Model	**BLF51-5**				
Cell Type	LFP				
Nominal Energy	5kWh				
Max. Depth of Discharge	90%				
Nominal Voltage	51.2V				
Operating Voltage Range	40-58.4V				
Nominal Capacity	100Ah				
Max. Charge Current	50A				
Max. Discharge Current	100A				
Scalability	Up to 5 Modules/25kWh				
General Data					
Dimension (W*H*D)	415*1380*165mm				
Weight	85kg	86kg	87kg	87kg	87kg
Standard Warranty	5 Years				

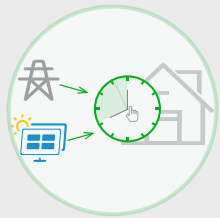
Hybrid Inverter

Single Phase: Hyper-3000/Hyper-3680/Hyper-4600/Hyper-5000/Hyper-6000

For new photovoltaic systems, the LIVOLTEK hybrid solution is a wise choice to improve your energy storage and utilization. Featuring a compact design, robust safety features, and superior performance, the LIVOLTEK hybrid bi-directional inverter can be perfectly adapted to residential and small businesses' self-consumption with battery storage. Its integrated backup power function and automatic activation in the event of power failure enable you to enjoy energy independence and maximize your solar investment through the export power control feature and time of use shifts for reducing electricity bills. Additionally, its modular scalable design offers the flexibility to start from small be size and expandable as your needs grow.

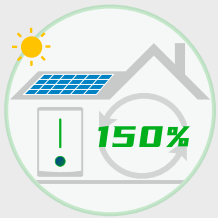
Features

- 24/7 local and remote monitoring
- High charging & discharging capacity
- Fanless design, quiet and long lifespan
- 150% oversized, 150% yield
- All-in-one & split application optional
- Power critical loads during power cuts



Flexible Setting for Charge

Export Control Function



150%Oversized, 150%Yield

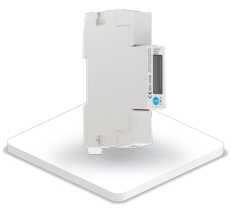
Compatible with High-current PV Modules

Compatible Products

Residential Lithium Battery

Smart EV Charger

Wi-Fi Dongle



Smart Meter

Monitoring System

Specifications

Model	Hyper-3000	Hyper-3680	Hyper-4600	Hyper-5000	Hyper-6000
PV Input					
Max. PV Input Power	4500Wp	5520Wp	6900Wp	7500Wp	7500Wp
Max. PV Input Voltage	600V				
Nominal Input Voltage	360V				
MPPT Voltage Range	125~550V				
No. of MPPTs/Strings per MPPT	1 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Max. PV Current	14A	14/14A	14/14A	14/14A	14/14A
Max. Short Circuit Current	17.5A	17.5/17.5A	17.5/17.5A	17.5/17.5A	17.5/17.5A
AC Output @ Grid					
Nominal AC Power	3000W	3680W	4600W	5000W	6000W
Max. Apparent Output Power	3000VA	3680VA	4600VA	5000VA	6000VA
Nominal AC Voltage	220V/230V/240V				
Nominal AC Voltage Range	186~290V				
AC Frequency	50Hz/60Hz				
Max. AC Current	14.0A	16.0A	20.0A	23.9A	26.1A
THDi,Rated Power[%]	<3%				
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)				
EPS Output @ Off Grid					
Nominal EPS Power	3000W	3680W	4600W	5000W	6000W
EPS Peak Power	1.1 x Pnom, 60 sec; 1.5 x Pnom, 1 sec				
Nominal Output Voltage	220V/230V				
Nominal Frequency	50Hz/60Hz				
Nominal Output Current	13.0A	16.0A	20.0A	21.7A	26.1A
THDv,Rated Power[%]	< 3%				
Battery Input					
Battery Type	Lithium				
Battery Voltage	40~60V				
Max. Charge/Discharge Current	60A	80A	100A	100A	125A
Communication with BMS	CAN				
Efficiency					
Max. Efficiency	97.6%	97.8%			
Euro Efficiency	97.1%	97.4%			
General Data					
Dimension (W*H*D)	415*625*155mm				
Weight	29kg	30kg	30kg	30kg	30kg
Mounting Method	Wall-mounting Bracket				
Protection Rating	IP65				
Cooling	Natural Convection				
Operating Temperature Range	-25℃~+60℃ (>45℃ Derating)				
Display	LED & APP				
Communication	Wi-Fi/DRM/CAN/RS485				
Standard Warranty	5 Years				

Remarks: The range of output Voltage and frequency may vary depending upon different grid codes.

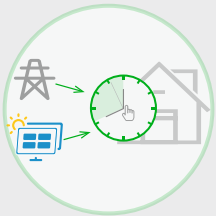
Hybrid Inverter

Three Phase: HP3-5K/6K/8K/10K/12K/15K/17K/20K /25K/30K D1

As the core of the energy storage solution, LIVOLTEK three phase hybrid inverter offers flexible and scalable solutions for both residential and commercial applications. With the ability of scalable battery storage, the high-voltage inverter facilitate powerful energy backup and also present high self-consumption with optimised built-in EMS to reduce energy cost.

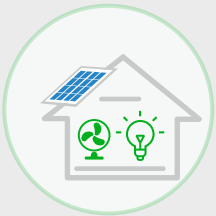
Features

- 150% PV oversize
- 100% Unbalanced output
- Max. 20A DC input current per string
- Free online monitoring and maintenance
- UPS level switching time for critical loads
- Multi woking modes for optimal perfomance



Flexible Setting for Charge

Voltage Range 150V-800V

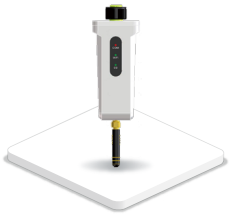


Support Unblance Load

Export Limitation

Compatible Products

High Voltage Lithium Battery



Wi-Fi Dongle

Smart Meter

Monitoring System

Specifications

Model	HP3-5KD1	HP3-6KD1	HP3-8KD1	HP3-10KD1	HP3-12KD1	HP3-15KD1	HP3-17KD1	HP3-20KD1	HP3-25KD1	HP3-30KD1
PV Input										
Max. PV Input Power	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp	22500Wp	25500Wp	30000Wp	37500Wp	45000Wp
Max. PV Input Voltage	1000V									
Nominal Input Voltage	600V									
MPPT Voltage Range	150 V ~ 850 V									
No. of MPPTs/Strings per MPPT	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+2)	2/(2+2)	2/(2+2)	2/(2+2)	2/(2+2)
Max.PV Current	20/20A	20/20A	20/20A	20/20A	20/20A	20/32A	32/32A	32/32A	40/40A	40/40A
Max. Short Circuit Current	30/30A	30/30A	30/30A	30/30A	30/30A	30/48A	48/48A	48/48A	60/60A	60/60A
AC Output @ Grid										
Nominal AC Output Power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W	30000W
Max. AC Input Power	7500W	9000W	12000W	15000W	18000W	22500W	25500W	30000W	37500W	45000W
Nominal AC Voltage	3W+N+PE, 230/400V									
AC Frequency	50 Hz / 60 Hz									
Max. Output Current	8.5A	10.5A	13.5A	17.0A	21.5A	27.0A	30.0A	32.0A	40.0A	48.0A
THDi,Rated Power[%]	< 3%									
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)									
EPS Output @ Off Grid										
Nominal EPS Power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W	30000W
EPS Peak Power	1.1 x Pnom, 60sec									
Nominal Output Voltage	3W+N+PE, 230/400V									
Nominal Frequency	50 Hz/60 Hz									
Nominal Output Current	7.3A	8.7A	11.6A	14.5A	17.4A	21.8A	24.8A	29.0A	36.3A	43.5A
THDv,Rated Power[%]	< 3%									
Battery Input										
Battery Type	Lithium									
Battery Voltage Range	150V ~ 800 V									
Max. Charge/Discharge Current	30A/30A					50A/50A			60A / 60A	
Communication with BMS	CAN									
Efficiency										
Max. Efficiency	98.1%	98.1%	98.2%	98.2%	98.3%	98.3%	98.3%	98.3%	98.5%	98.5%
Euro Efficiency	97.5%	97.5%	97.5%	97.5%	97.6%	97.6%	97.8%	97.8%	98%	98.1%
General Data										
Dimension (W*H*D)	560*430*250 mm									
Weight	20kg	20kg	23kg	23kg	23kg	29kg	29kg	29kg	29kg	29kg
Mounting Method	Wall-mounted									
Protection Rating	IP65									
Cooling	Natural Convection		Intelligent Fan							
Operating Temperature Range	-25 °C~+60 °C									
Display	LED & APP									
Communication	Wi-Fi/DRM/CAN/RS485									
Standard Warranty	5 Years									

Remarks: The range of output Voltage and frequency may vary depending upon different grid codes.

AC Coupled Inverter

Retro-3000/3680/4600/5000/6000

The LIVOLTEK AC coupled inverter is a cost-efficient solution to upgrade any existing PV inverter system to the hybrid one by adding a backup battery. This battery-based inverter allows you to store the surplus power to maximize self-consumption and protects you from rising electricity costs to achieve both grid-tied benefits and off-grid independence. Along with its ability to address the large retrofit market of existing PV systems, it also makes innovative residential storage solutions available for homes without solar-powered, ensuring energy flexibility and continuous power supply. In addition, you also get the added benefits of easy-to-in-stall, reliability and use-friendly function.

Features

- Quick and easy installation
- Intelligent storage management
- Integrated with existing PV inverters
- Extremely quiet
- Indoor or outdoor installation
- Smart energy monitor and control

Local and Remote Monitoring

Maximized Self-consumption

Easy and Economical Way to Retrofit

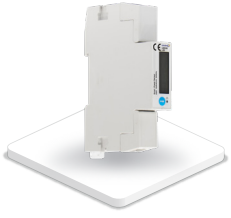
Flexible Schedule for Charging and Discharging

Compatible Products

Grid Tied Inverter

Residential Lithium Battery

Wi-Fi Dongle



Smart Meter

Monitoring System

Specifications

Model	Retro-3000	Retro-3680	Retro-4600	Retro-5000	Retro-6000
AC Output @ Grid					
Nominal AC Power	3000W	3680W	4600W	5000W	6000W
Max. Apparent Output Power	3000VA	3680VA	4600VA	5000VA	6000VA
Nominal AC Voltage	220V/230V/240V				
Nominal AC Voltage Range	186V~290V				
Output Frequency	50Hz/60Hz ±5Hz				
Max. AC Current	13.0A	16.0A	20.0A	21.7A	26.1A
THDi,Rated Power	<3%				
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)				
EPS Output @ Off Grid					
Nominal EPS Power	3000W	3680W	4600W	5000W	6000W
EPS Peak Power	1.1 x Pnom, 60 sec; 1.5 x Pnom, 1 sec				
Nominal Output Voltage	220V/230V				
Nominal Frequency	50Hz/60Hz				
Nominal Output Current	13.0A	16.0A	20.0A	21.7A	26.1A
Waveform	Pure Sinusoidal Wave				
THDv(@Liner Load)	< 3%				
Battery Data					
Battery Type	Lithium				
Nominal Battery Voltage	48V				
Battery Voltage Range	40V-60V				
BMS Communication	CAN				
Max.Charge/Discharge Current	60A	80A	100A	100A	125A
Communication with BMS	According to the BMS Directive				
Efficiency					
Max. Charging Efficiency	94.6%				
Max. Discharging Efficiency	94.6%				
General Data					
Demensions(W*H*D)	415*625*155mm				
Weight	28.5kg	29kg	29kg	29kg	30kg
Mounting Method	Wall-mounting Bracket				
Protection Rating	IP65				
Cooling	Natural Convection				
Operating Temperature Range	-25℃~+60℃ (>45℃ Derating)				
Max. Operating Altitude	2000m				
Noise	<25dB				
Relative Humidity	0~100%,No Condensation				
Display	LED & APP				
Topology	Transformerless				

Remarks: The range of output Voltage and frequency may vary depending upon different grid codes.

High-Voltage Residential Battery

Lithium Battery System: BHF-S10/S15/S20/S25/S30

The LIVOLTEK BHF HV Battery System is ideal for new installation of residential energy storage system. With high energy density, high efficiency ,modular stacking design and IP65 rating, BHF series battery is space-saving for indoor and outdoor installation.Up to 30 kWh system can fit your high energy demand.

Features

- IP65 supporting indoor and outdoor installation
- Long cycle life and safest prismatic LFP batteries
- Remote fault diagnosis, upgrade and maintenance
- Reliable performance: high efficiency, high energy density and 90% DOD
- Modular stacking design, easy installation, supporting floor and wall mounting

Safe to Use

Long Cycle Life (6000 Cycles)

Modular Expansion

Reliable Performance

Compatible Products

Hybrid Inverter

Monitoring System

Specifications

Model	BHF-S10	BHF-S15	BHF-S20	BHF-S25	BHF-S30
Nominal Voltage	204.8V	307.2V	409.6V	512V	614.4V
Operating Voltage Range	172.8V-230.4V	259.2V-345.6V	259.2V-345.6V	432V-576V	518.4V-691.2V
Battery Module	102.4V 50Ah 5.12kWh				
Number of Modules	2	3	4	5	6
Total Energy	10.2kWh	15.4kWh	20.5kWh	25.6kWh	30.7kWh
Usable Energy	9.2kWh	13.8kWh	18.4kWh	23.0kWh	27.6kWh
Rated Capacity	50Ah				
Nominal Power	5.1kW	7.7kW	10.2kW	12.8kW	15.4kW
Max. Power	9.8kW	14.7kW	19.7kW	24.6kW	29.5kW
Recommend Charge/Discharge Current	25A				
Max. Charge/Discharge Current	48A				
Cycle Life	6000 Cycles[1]				
Expected Life Time/Warranty	10 Year				
Operating Temperature Range	Charge: 0℃~55℃/Discharge: -20℃~55℃				
Storage Temperature	-20℃~55℃				
Operating Humidity	5%-95%				
Operating Altitude	Below 4000m				
Protection Degree	IP65				
Installation Location	Wall-mounted / Ground-mounted				
Battery to Inverter Communication	CAN				
Battery to Battery/BMS	CAN				
Certificate	CE,UN38.3,IEC62619,IEC61000				
Protective Level	I				
Dimensions(W×H×D mm)	870*878.5*208.7	870*1167*208.7	870*1455*208.7	870*1167*208.7 870*778*208.7	870*1167*208.7 870*1067*208.7
Net Weight	147kg	209kg	271kg	356kg	418kg

[1]: Test conditions: 0.5C Charge/0.5C Discharge, @25℃, 90% DOD, 70% EOL.

Low-Voltage Residential Battery

Lithium Battery System: BLF51-5 51.2V100Ah

The BLF51-5 LV battery system is ideal for new installation of household energy storage. With high energy density and wall- mounted solution, BLF51-5 LV battery system is space-saving for indoor and outdoor installation. To serve increasing load requirement, the flexible expansion can fit your energy demand of today and tomorrow.

Features

- Intelligent BMS with multiple protections
- Double and robust mechanical protection
- IP65 supporting indoor and outdoor installation
- Long cycle life and safest prismatic LFP batteries
- Reliable performance: high efficiency and 90% DOD
- Easy and quick installation and expansion with modular design

Safe to Use

Long Cycle Life (6000 Cycles)

Modular Expansion

Flexible Integration

Compatible Products

Hybrid Inverter

AC Coupled Inverter

Off-grid Hybrid Inverter

Monitoring System

Specifications

Model	BLF51-5
Battery Type	LFP
Nominal Voltage	51.2V
Operating Voltage Range	43.2V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Depth of Discharge	90%
Usable Energy	4.6kWh
Dimension(W*H*D)	IP21: 415*662*178mm; IP65: 415*685*178mm
Weight	55kg
Max. Charge/Discharge Current	50A/100A
Operating Temperature	Charge: 0°C~50°C; Discharge: -10°C~55°C
Operating Humidity	5%~95%
Storage Temperature	-20°C~60°C
Operating Altitude	Below 4000m
Communication	RS485/CAN
Scalability	Up to 5 Modules/25kWh
Cooling Type	Natural
Ingress Protection	IP21/IP65
Cycle Life	6000 Cycles[1]
Standard Warranty	5 Years/10 Years (Optional)
Authentication Level	IEC62619/CE/UN38.3

[1]: Test conditions: 0.5C Charge/0.5C Discharge, @25℃, 90% DOD, 70% EOL.

Low-Voltage Residential Battery

IP21 Lithium Battery: BLF-B51100

The BLF-B51100 Lithium battery system is ideal for new installation of household energy storage. With high energy density and wall-mounted solution, BLF-B51100 battery system is space-saving for indoor installation. To serve increasing load requirement, the flexible expansion can fit your energy demand of today and tomorrow.

Features

- Intelligent BMS with multiple protections
- Double and robust mechanical protection
- IP21 supporting indoor installation
- Long cycle life and safest prismatic LFP batteries
- Reliable performance: high efficiency and 90% DOD
- Easy and quick installation and expansion with modular design

Safe to Use

Long Cycle Life
(4000/6000 Cycles)

Modular
Expansion

Flexible
Integration

Off-Grid Inverter

Monitoring System

Specifications

Model	BLF-B51100
Battery Type	LFP
Nominal Voltage	51.2V
Operating Voltage Range	43.2V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Max.Power	Charge:4.1kw;Discharge:5.12kw
Depth of Discharge	90%
Usable Energy	4.6kWh
Dimension(W*H*D)	335*622*135.5 mm
Weight	42.6kg
Max. Charge/Discharge Current	100A/100A
Operating Temperature	Charge: 0°C~50°C; Discharge: -10°C~55°C
Operating Humidity	5%~95%
Storage Temperature	-20°C~60°C
Operating Attitude	Below 4000 m
Communication	RS485/CAN
Scalability	Up to 5 Modules/25kWh
Cooling Type	Natural
Ingress Protection	IP21
Installation Location	Wall-mounted
Cycle Life	4000 Cycles / 6000 Cycles[1] (Optional)
Standard Warranty	5 Years/10 Years (Optional)
Authentication Level	IEC61000/UN38.3

[1]: Test conditions: 0.5C Charge/0.5C Discharge, @25℃, 90% DOD, 70% EOL.

Low-Voltage Residential Battery

Lead-acid Battery: BLA-12100/12200

BLA-12100/12200 Lead-Acid Battery is a reliable and cost-effective energy storage solution.
With its high-quality materials and advanced manufacturing process, BLA-12100/12200 offers high energy density, long cycle life, and excellent performance,and it also guarantees safety, efficiency, and environmental friendliness.

Features

- Excellent charge acceptance ability
- High energy density and power density
- Optimized capability of instant high-current discharging

High corrosion resistant performance: Pb-Ca multi-alloy grid

- Long life
- Precision sealing technology
- Excellent deep cycle discharge capability

Strong high and low temperature performance

Safe to Use

Long Cycle Life

Modular Expansion

Flexible Integration

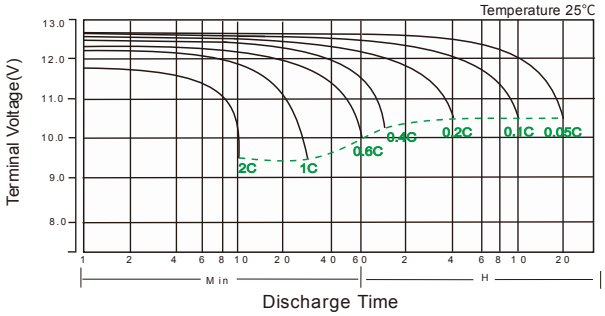
Off-Grid Inverter

Monitoring System

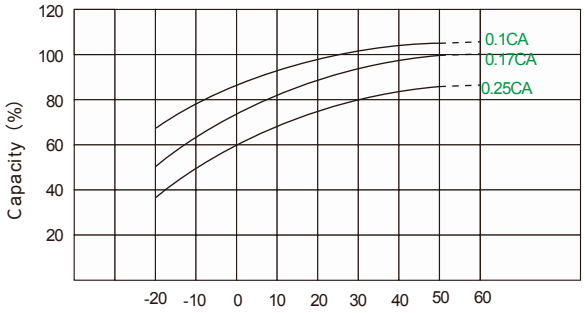
Specifications

Model	BLA-12100	BLA-12200
Nominal Voltage	12V	
Nominal Capacity	100Ah	200Ah
Design Life	12years at 25℃, floating life	
Terminal	M8	
Approx. Weight	Approx28.0kg (61.8lbs)	Approx55.5kg (122.4lbs)
Container Material	ABS	
Rated Capacity	100 A h: HR (5.00A to 10.5V)	200.0Ah：HR (10.0A to 10.5V)
	75.0Ah: HR (25.0A to 10.5V)	147.0Ah：HR (49.0A to 10.5V)
	62.5Ah: HR (62.5A to 9.6V)	122.0Ah：HR (122.7.0A to 9.6V)
Internal resistance	Full Charged at 25°C: 5.5 mΩ	Full Charged at 25°C: 3.2 mΩ
Max. Discharge Current	920A (5S)	1840A (5S)
Operating Temperature	Discharge: -20 ~55℃(-4~ 131°F)	
	Charge : -20 ~40℃(-4~ 104°F)	
	Storage: -15 ~50℃(-5~ 122°F)	
Charge Method	Charge Current: Max. 20.0A; Recom.10.0A	Charge Current: Max. 40.0A; Recom.20.0A
	Float Charge: 13.38-13.62V, Recom.13.62V(-18mV/ °C)	
	Equalize Charge: 13.62-14.4V, Recom.14.4V(-24mV/ °C)	
	Cycle Charge:14.4-15.0V, Recom.14.7V(-30mV/ °C)	
Self Discharge	≤3 % /Month at 25°C	
Standard Warranty	1 Year	

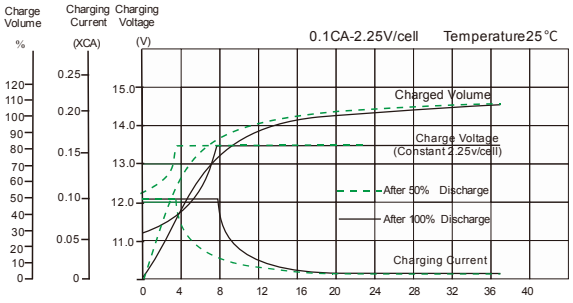
Discharge Characteristics:



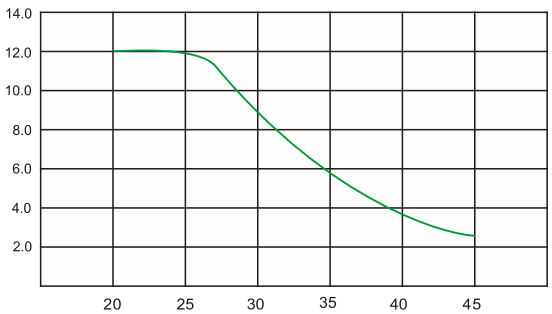
Temperature Effects in Relation to Battery Capacity:



Float Charging Characteristics:



Temperature Effects on Long Term Float Life:



Industrial and Commercial ESS

BHF-G Series Battery System: BHF-G20/25/30/35/40/45/50/55/60

Livoltek BHF-G series are a high-performance, scalable high-voltage battery storage module, can be directly used as backup power or combined with photovoltaics to form an optical storage system, suitable for shops, hotels, small factories and other scenarios. As an energy storage system, the BHF-G series adopt the modular and rack-mounted design which are easy to install and maintain. A single battery pack has a capacity of 5.12kWh, while a cluster supports up to 12 packs as a combination system with a capacity of 61.4kWh. Also, multiple battery clusters can be in parallel for expanding capacity and power(up to 5 in parallel for a capacity of 300 kWh). Additionally, because of its Intelligent BMS system with high-performance equalization technology and multiple protections, the system can automatically balance the current and voltage of each cell and maintain it for long cycle life.

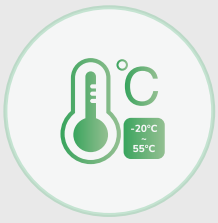
Features

- Easy installation and expansion with modular design
- Wide operating temperature range from -20°C to 55°C
- Real-time moniter and management via CAN/RS485
- Long cycle life with LFP cells
- Intelligent BMS multiple protection
- 10 Years Warranty

Modular Expansion

Long Cycle Life(6000 cycles)

Multiple BMS Protection



Wide Temperature Tolerance(-20°C~55°C)

Compatible Products

Hybrid Inverter

Monitoring System

Specifications

Model	BHF-G20	BHF-G25	BHF-G30	BHF-G35	BHF-G40	BHF-G45	BHF-G50	BHF-G55	BHF-G60
Nominal Voltage (V)	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
Operating Voltage Range（V）	172.8~230.4	216~288	259.2~345.6	302.4~403.2	345.6~460.8	388.8~518.4	432~576	475.2~633.6	518.4~691.2
Rate Capacity (Ah)	100								
Number of modules	4	5	6	7	8	9	10	11	12
Total Energy (kWh)	20.5	25.6	30.7	35.8	41	46.1	51.2	56.3	61.4
Usable Energy（kWh）	18.4	23	27.6	32.3	36.9	41.5	46.1	50.7	55.3
Rated Power (kW)	10.2	12.8	15.4	17.9	20.5	23	25.6	28.2	30.7
Max power (kW)	20.5	25.6	30.7	35.8	41	46.1	51.2	56.3	61.4
Rated Charge/ Discharge Current（A）	50/50								
Max charge/ Discharge Current (A)	80/100								
Depth of Discharge	90%								
Operating Temperature (℃)	Charge: 0~55℃ Discharge: -20℃~55℃								
Operating Humidity	5%~95%								
Operating Altitude	＜4000m								
Communication	CAN/RS485								
Cooling Type	Natural								
Protection Rating	IP20								
Cycle Life	4000/6000 Cycles[1]								
Warranty	5/10 Years								
Dimensions（mm）	545*480*2000								

[1]: Test conditions: 0.5C Charge/0.5C Discharge, @25℃, 90% DOD, 70% EOL.

Grid Tied Inverter

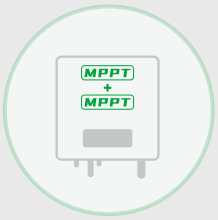
Single Phase: GT1-2K5/3K/3K3/3K6/4K/5K/6K D2

Product Release Soon

LIVOLTEK GT1 2.5~6K-D2 grid-tied inverters adopt modern design for residential requirements. Its compact size and dual MPPTs can be utilised in complex design environments. The maximum input current per string is up to 16A, making it compatible with large 182+ PV modules. Additionally, it features an integrated AFCI (Arc Fault Circuit Interrupter) for DC arc fault protection, providing a high level of safety. Our interactive Wi-Fi monitoring via our App or web platform allows for smart remote supervision and maintenance, making your solar energy pursuit effective and efficient.

Features

- DC input 16A per string
- Integrated AFCI(optional)
- Lower startup & Daul MPPT
- 150% oversizing and 110% overloading
- 7*24 hours monitoring and maintenance
- Plug-and-play design for quick installation



Dual MPPTs

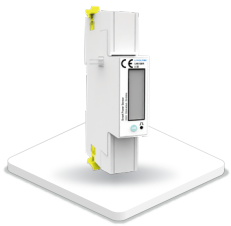
Export Limitation

Optional AFCI Module

7*24 Remote Monitoring

Compatible Products

Wi-Fi Dongle



Smart Meter

Monitoring System

Specifications

Preliminary

Model	GT1-2K5D2	GT1-3KD2	GT1-3K3D2	GT1-3K6D2	GT1-4KD2	GT1-5KD2C	GT1-5KD2	GT1-6KD2
PV Input								
Max. DC Input Power	3750Wp	4500Wp	4950Wp	5400Wp	6000Wp	7500Wp	7500Wp	9000Wp
Max. DC Input Voltage	600V							
Min PV Input Voltage	70V							
Start-up DC Input Voltage	90V							
Nominal DC Input Voltage	360V							
MPPT Voltage Range	70-550V							
Max. PV Current	16A+16A							
Max. Short Circuit Current	20A+20A							
No. of MPPTs/Strings per MPPT	2/1							
AC Output								
Nominal AC Power	2500W	3000W	3300W	3600W	4000W	5000W	5000W	6000W
Max. Apparent Power	2750VA	3300W	3630VA	3690VA[1]	4400VA	5000VA	5500VA[3]	6600VA
Rated AC Grid Output Current	11.4A	13.6A	15A	16.3A	18.2A	22.7A	22.7A	27.3A
Max. AC Output Current	12.5A	15A	16.5A	18A[2]	20A	22.7A	25A[4]	30A
Rated AC Grid Voltage	220V/230V/240V, L+N+PE							
AC Grid Voltage Range	154V-290V (Adjustable)							
Rated Grid Frequency	50Hz/60Hz							
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)							
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8 Lagging)							
THDi, Rated Power[%]	<3%							
Efficiency								
Max. Efficiency	97.70%	97.70%	97.70%	97.70%	97.70%	97.70%	97.70%	97.70%
Euro Efficiency	96.50%	96.50%	96.50%	96.50%	97.00%	97.00%	97.00%	97.00%
MPPT Efficiency	>99%							
Protection								
Surge Arrester	Type II							
Over Current Protection	Support							
AC Short Circuit Protection	Support							
Over Voltage Protection	Support							
Anti-islanding Protection	Support							
Ground Fault Monitoring	Support							
Residual Current Monitoring Unit	Support							
DC Reverse Polarity Protection	Support							
AC Auxiliary Power Supply (APS)	Optional							
Anti-arc Protection	Optional							
General Data								
Dimension (W*H*D)	368*325*150mm							
Weight	12kg							
Protection Degree	IP65							
Cooling	Natural Cooling							
Operating Temperature Range	–30°C ~ +60°C（Derating at 45°C)							
Display	LED+APP							
Communication	RS485(Meter), Wi-Fi							
Topology	Transformerless							
Certifications and Standards								
Grid Regulation	"IEC61727, IEC62116, ORDINANCE No. 140, OF MARCH 21, 2022, EN50549"							
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4							
Standard Warranty	10 Years							

Remarks: [1]: 3690(3680W for G98); [2]: 18(16.7A for G98); [3]: 5500(4999W for AS4777); [4]: 25(22.7A for AS4777);

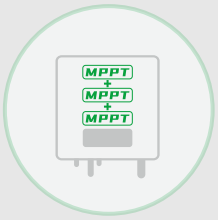
Grid Tied Inverter

Single Phase: GT1-7k/8k/9k/10k T2

The Livoltek GT1 7.0 / 8.0 / 9.0 / 10.0-T2 photovoltaic inverter is developed specifically for high-power single-phase residential models, offering compatibility with complex rooftops, private residences, villas, and small commercial applications. It features three MPPTs, each with an input current of 16A, making it suitable for high-efficiency large modules and significantly increasing power generation. With a built-in SPD II module, it reduces external installation costs for labor and wiring. The local AP mode and remote Wi-Fi dual monitoring provide users with the best inverter performance, convenience, and stability.

Features

- 3 MPPTs trackers
- Built-in Type II DC&AC SPD
- 24/7H live monitoring both online
- DC input 16A per string
- Integrated arc fault circuit interrupter (Optional)
- Limitation Export control



Triple MPPTs

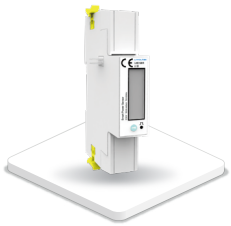
Export Limitation

Optional AFCI Module

7*24 Remote Monitoring

Compatible Products

Wi-Fi Dongle



Smart Meter

Monitoring System

Specifications

Model	GT1-7KT2	GT1-8KT2	GT1-9KT2	GT1-10KT2
PV Input				
Max. DC Input Power	10500Wp	12000Wp	13500Wp	15000Wp
Max. DC Input Voltage	600V			
Min PV Input Voltage	70V			
Start-up DC Input Voltage	90V			
Nominal DC Input Voltage	360V			
MPPT Operating Range	70-560V			
Max. DC Input Current	16A+16A+16A			
Max. Short Circuit Current	20A+20A+20A			
No. of MPPTs/Strings per MPPT	3/1			
AC Output				
Nominal Output Power	7000W	8000W	9000W	10000W
Max. Apparent Power	7700VA	8800VA	9900VA	11000VA
Rated AC Grid Output Current	31.8A	36.4A	40.9A	45.5A
Max. AC Output Current	35A	40A	45A	50A
Rated AC Grid Voltage	220V/230V/240V, L+N+PE			
AC Grid Voltage Range	154V-290V (Adjustable)			
Rated Grid Frequency	50Hz/60Hz			
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)			
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8 Lagging)			
Output THDi (@Nominal Output)	<3%			
Efficiency				
Max. Efficiency	98.00%	98.00%	98.00%	98.00%
Euro Efficiency	97.50%	97.50%	97.50%	97.50%
MPPT Efficiency	>99%			
Protection				
Surge Arrester	Type II			
PV Current Detection	Support			
Over Current Protection	Support			
AC Short Circuit Protection	Support			
Over Voltage Protection	Support			
Anti-islanding Protection	Support			
Ground Fault Monitoring	Support			
Residual Current Monitoring Unit	Support			
DC Reverse Polarity Protection	Support			
AC auxiliary power supply (APS)	Optional			
Anti-arc Protection	Optional			
General Data				
Dimension (W*H*D)	465*425*180mm			
Weight	19.5kg			
Protection Degree	IP65			
Cooling	Natural Cooling			
Operating Temperature Range	–30°C ~ +60°C（Derating at 45°C)			
Night Self Consumption	＜1W			
Display	LED+APP			
Communication	RS485(Meter), Wi-Fi			
Topology	Transformerless			
Certifications and Standards				
Grid Regulation	ORDINANCE No.140, OF MARCH 21, 2022, IEEE1547			
Safety/EMC Standard	IEC62109-1/-2, UL1741, IEC61000-6-1/2/3/4			
Standard Warranty	10 Years			

Grid Tied Inverter

Single Phase: GT1-1K6/2K2/3K/3K3 S1

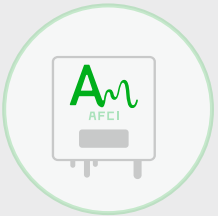
The LIVOLTEK GT1-1.6/2.2/3.0/3.3K-S1 is an economical mini inverter developed and designed for home use. GT1 series has advanced topology and precise MPPT algorithm, with the highest conversion efficiency up to 97.8%. It is suitable for different grid voltage ranges in many parts of the world, mainly covering 220V and 230V. Equipped with Wi-Fi and bluetooth dual wireless monitoring function, these inverters are convenient and easy to operated.

Features

- 150% DC/AC ratio
- Export limitation (optional)
- Smart APP to monitor & optimize
- AFCI (optional)
- Plug-and-play installation saves time
- 110% AC output for efficient power generation

Maximum
Efficiency of 97.8%

Smart APP to
Monitor & Optimize



Optional Internal
Integrated AFCI Module

Plug-and-play
Installtion Saves Time

Compatible Products

Wi-Fi Dongle

Smart Meter

Monitoring System

Specifications

Model	GT1-1K6S1	GT1-2K2S1	GT1-3KS1	GT1-3K3S1
PV Input				
Max. PV Input Power	2400Wp	3300Wp	4500Wp	4950Wp
Max. PV Input Voltage	550V			
Min. PV Input Voltage	50V			
Start-up Input Voltage	70V			
Nominal Input Voltage	360V			
MPPT Voltage Range	50-545V			
Max. PV Current	14A			
Max. Short Circuit Current	20A			
No. of MPPTs/Strings per MPPT	1/1			
AC Output				
Nominal AC Power	1600W	2200W	3000W	3300W
Max. Apparent Power	1760VA	2420VA	3300VA	3300VA
Rated AC Grid Output Current	7.0A	9.6A	13.0A	14.3A
Max. AC Output Current	7.7A	10.5A	14.3A	14.3A
Rated AC Grid Voltage	220V/230V/240V, L+N+PE			
AC Grid Voltage Range	160V-300V (Adjustable)			
Rated Grid Frequency	50Hz/60Hz			
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)			
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8 Lagging)			
THDi, Rated Power[%]	<3%			
Efficiency				
Max. Efficiency	97.5%	97.5%	97.8%	97.8%
Euro Efficiency	96.9%	96.9%	97.3%	97.3%
MPPT Efficiency	>99%			
Protection				
Surge Arrester	Type III / Type II (Optional)			
PV Current Detection	Support			
AC Short Circuit Protection	Support			
Anti-islanding Protection	Support			
Ground Fault Monitoring	Support			
Residual Current Monitoring Unit	Support			
DC Reverse Polarity Protection	Support			
Anti-arc Protection	Optional			
General Data				
Dimension (W*H*D)	280*300*140mm			
Weight	6.5kg			
Protection Degree	IP65			
Cooling	Natural Cooling			
Operating Temperature Range	–30°C ~ +60°C (Derating at 45°C)			
Typical Noise Emission	＜25dB			
Night Self Consumption	＜1W			
Display	LED+APP			
Communication	RS485 (Meter), Wi-Fi+Bluetooth, DRM			
Topology	Transformerless			
Certifications and Standards				
Grid Regulation	IEC61727, IEC62116, EN50549, ABNT NBR 16149, ABNT NBR 16150, UL 1741, IEEE 1547			
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Standard Warranty	5 Years/10 Years (Optional)			

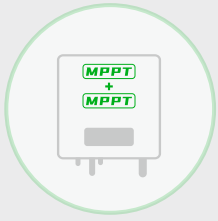
Grid Tied Inverter

Single Phase: GT1-3K6/4K/4K6/5K/6K D1

The LIVOLTEK GT1-3.6/4.0/4.6/5.0/6.0K-D1 inverter is specially designed for private residential PV systems and its compact design ensures minimal space requirements. Small in size and light in weight, it can be easily installed by one person. The inverter can optionally integrate the AFCI protection function inside, which can actively reduce the risk of fire as a high safety factor. In addition, it also supports a local bluetooth APP and remote dual monitoring, which is convenient and stable.

Features

- 150% DC/AC ratio
- Export limitation (optional)
- Smart APP to monitor & optimize
- AFCI (optional)
- Plug-and-play installation to save time
- 110% AC output for efficient power generation



Built-in Dual MPPT

Optional Internal Integrated AFCI Module

Plug-and-play Installation Saves Time

Export Limitation

Compatible Products

Wi-Fi Dongle

Smart Meter

Monitoring System

Specifications

Model	GT1-3K6D1	GT1-4KD1	GT1-4K6D1	GT1-5KD1	GT1-6KD1
PV Input					
Max. PV Input Power	5400Wp	6000Wp	6900Wp	7500Wp	9000Wp
Max. PV Input Voltage	550V				
Min. PV Input Voltage	70V				
Start-up Input Voltage	90V				
Nominal Input Voltage	360V				
MPPT Voltage Range	70-545V				
Max. PV Current	14A+14A				
Max. Short Circuit Current	20A+20A				
No. of MPPTs/Strings per MPPT	2/1				
AC Output					
Nominal AC Power	3600W	4000W	4600W	5000W	6000W
Max. Apparent Power	3960VA	4400VA	4600VA	5500VA	6600VA
Rated AC Grid Output Current	15.7A	17.4A	20.0A	21.7A	26.1A
Max. AC Output Current	17.2A	19.1A	20.0A	23.9A	28.7A
Rated AC Grid Voltage	220V/230V/240V, L+N+PE				
AC Grid Voltage Range	160V-300V (Adjustable)				
Rated Grid Frequency	50Hz/60Hz				
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)				
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8 Lagging)				
THDi, Rated Power[%]	<3%				
Efficiency					
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%
Euro Efficiency	97.3%	97.3%	97.5%	97.5%	97.5%
MPPT Efficiency	>99%				
Protection					
Surge Arrester	Type III / Type II (Optional)				
PV Current Detection	Support				
AC Short Circuit Protection	Support				
Anti-islanding Protection	Support				
Ground Fault Monitoring	Support				
Residual Current Monitoring Unit	Support				
DC Reverse Polarity Protection	Support				
Anti-arc Protection	Optional				
General Data					
Dimension (W*H*D)	350*315*176mm				
Weight	12.5kg				
Protection Degree	IP65				
Cooling	Natural Cooling				
Operating Temperature Range	–30°C ~ +60°C（Derating at 45°C)				
Typical Noise Emission	＜25dB				
Night Self Consumption	＜1W				
Display	LED+APP				
Communication	RS485 (Meter), Wi-Fi+Bluetooth, DRM				
Topology	Transformerless				
Certifications and Standards					
Grid Regulation	IEC61727, IEC62116,EN50549, ABNT NBR 16149, ABNT NBR 16150, UL 1741, IEEE 1547				
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
Standard Warranty	5 Years/10 Years (Optional)				

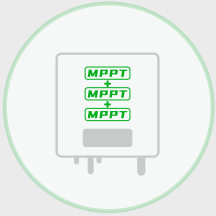
Grid Tied Inverter

Single Phase: GT1-7K/8K T1

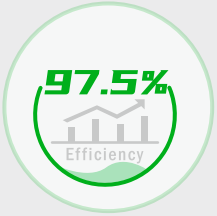
The LIVOLTEK GT1-7.0/8.0K-T1 PV inverters are developed for customers using high-power single-phase household models. This inverter is not only compatible with PV systems required for complex roofs, such as private homes or villas, but also powerful in small commercial and industrial scenarios. With an input current of 16A, it is suitable for high-efficiency large modules to enhance power generation in all aspects. The optional built-in SPD II module can effectively reduce external installation labor and wiring costs. Local bluetooth APP and remote dual monitoring provide users with the best inverter performance and maximum convenience and comfort.

Features

- 150% DC/AC ratio
- Export limitation (optional)
- Smart APP to monitor & optimize
- AFCI (optional)
- Plug-and-play installation saves time
- 110% AC output for efficient power generation



Built-in Triple MPPT



Max Efficiency of 97.5%

Optional Internal
Integrated AFCI Module

Plug-and-play
Installtion Saves Time

Compatible Products

Wi-Fi Dongle

Smart Meter

Monitoring System

Specifications

Model	GT1-7KT1	GT1-8KT1
PV Input		
Max. PV Input Power	10500Wp	12000Wp
Max. PV Input Voltage	550V	
Min PV Input Voltage	120V	
Start-up Input Voltage	90V	
Nominal Input Voltage	360V	
MPPT Voltage Range	70-545V	
Max. PV Current	16A+16A+20A	
Max. Short Circuit Current	25A+25A+30A	
No. of MPPTs/Strings per MPPT	3/1	
AC Output		
Nominal AC Power	7000W	8000W
Max. Apparent Power	7700VA	8800VA
Rated AC Grid Output Current	30.4A	34.8A
Max. AC Output Current	33.5A	38.3A
Rated AC Grid Voltage	220V/230V/240V, L+N+PE	
AC Grid Voltage Range	160-300V (Adjustable)	
Rated Grid Frequency	50Hz/60Hz	
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)	
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8Lagging)	
THDi, Rated Power[%]	<3%	
Efficiency		
Max. Efficiency	98.20%	
Euro Efficiency	97.50%	97.50%
MPPT Efficiency	99.99%	99.99%
Protection		
Surge Arrester	Type III/Type II (Optional)	
AC Short Circuit Protection	Support	
Anti-islanding Protection	Support	
Ground Fault Monitoring	Support	
DC Reverse Polarity Monitoring	Support	
Residual Current Monitoring Unit	Support	
General Data		
Dimension (W*H*D)	410*345*186 mm	
Weight	16.8kg	
Protection Degree	IP65	
Cooling	Natural Cooling	
Operating Temperature Range	–30 °C~ +60 °C (Derating at 45°C)	
Typical Noise Emission	<25dB	
Night Self Consumption	<1W	
Display	APP+LED	
Communication	RS485 (Metre), Wi-Fi+Buletooth, DRM	
Topology	Transformerless	
Certifications and Standards		
Grid Regulation	IEC61727, IEC62116, ABNT NBR 16149, ABNT NBR 16150	
Safety	IEC62109-1/-2	
EMC	IEC1000-6-1, IEC61000-6-2, IEC61000-6-3, IEC61000-6-4	
Standard Warranty	5 Years/10 Years (Optional)	

Grid Tied Inverter

Three Phase: GT3-4K/5K/6K/8K/10K/12K/15K/17K/20K/22K/25K D1

The LIVOLTEK GT3-4/5/6/8/10/12/15/17/20/22/25K-D1 PV inverter is developed for residential or commercial customers who need a three-phase rooftop model. The integrated shade fixing management system ensures the inverter to maximizes energy production even when the PV panels are lightly shaded. The machine has a built-in optional AFCI module to prevent electrical fires caused by abnormal arc faults in the electrical wiring as a high safety feature. With 160V ultra-low start-up voltage, ultra-long working time, it's surely an ideal choice for large commercial and industrial power plants.

Features

- 150% DC/AC ratio
- Export limitation (optional)
- Smart APP to monitor & optimize
- AFCI (optional)
- Plug-and-play installation saves time
- 110% AC output for efficient power generation

Max Efficiency 98.6%

Support Export Limitation

Optional Internal Integrated AFCI Module

SPD II Protection

Compatible Products

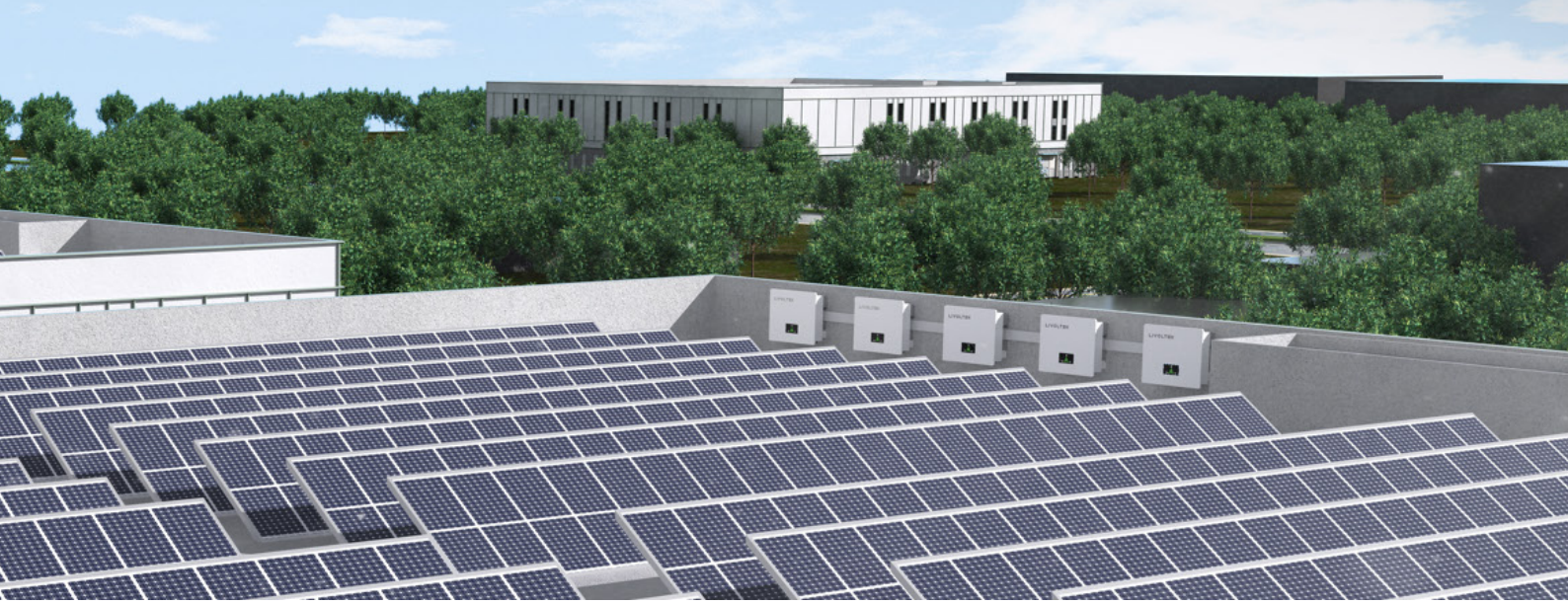
Wi-Fi Dongle

Smart Meter

Monitoring System

Specifications

Model	GT3-4KD1	GT3-5KD1	GT3-6KD1	GT3-8KD1	GT3-10KD1	GT3-12KD1	GT3-15KD1	GT3-17KD1	GT3-20KD1	GT3-22KD1	GT3-25KD1
PV Input											
Max. PV Input Power	6000Wp	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp	22500Wp	25500Wp	30000Wp	33000Wp	37500Wp
Max. PV Input Voltage	1100V										
Min. PV Input Voltage	140V										
Start-up Input Voltage	160V										
Nominal Input Voltage	650V										
MPPT Voltage Range	140V-1000V										
Max. PV Input Current	16A+16A					40A+20A		40A+40A			
Max. Short Circuit Current	21A+21A					52A+26A		52A+52A			
No. of MPPTs	2					2		2			
No. of Strings per MPPT	1/1					2/1		2/2			
AC Output											
Nominal AC Power	4000W	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	22000W	25000W
Max. Apparent Power	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA	18700VA	22000VA	24200VA	27500VA
Rated AC Grid Output Current	5.8A	7.2A	8.7A	11.5A	14.4A	17.3A	21.7A	24.5A	28.9A	31.8A	36.1A
Max. AC Output Current	6.4A	7.9A	9.5A	12.7A	15.9A	19.1A	23.8A	27.0A	31.8A	34.9A	39.7A
Rated AC Grid Voltage	3/N/PE, 220V/380V, 230V/400V										
AC Grid Voltage Range	270V-480V										
Rated Grid Frequency	50Hz/60Hz										
Grid Frequency Range	45Hz-55Hz/55Hz-66Hz										
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8Lagging)										
THDi, Rated Power[%]	<3%										
Efficiency											
Max. Efficiency	98.50%	98.50%	98.50%	98.60%	98.60%	98.60%	98.50%	98.50%	98.60%	98.60%	98.60%
Euro Efficiency	98.10%	98.10%	98.10%	98.20%	98.20%	98.20%	98.10%	98.10%	98.20%	98.20%	98.20%
MPPT Efficiency	>99%										
Protection											
Surge Arrester	Type II										
PV Current Detection	Support										
AC Short Circuit Protection	Support										
Anti-islanding Protection	Support										
Residual Current Monitoring Unit	Support										
Integrated AFCI (Arc-Fault Circuit Protection)	Optional										
General Data											
Dimension (W*H*D)	520*420*193mm										
Weight	22kg					24.5kg					
Protection Degree	IP65					IP65					
Cooling	Natural Cooling					Fan Cooling					
Operating Temperature Range	–30°C~ 60°C (Derating at 45°C)					–30°C~ 60°C (Derating at 45°C)					
Typical Noise Emission	<30dB					<40dB					
Night Self Consumption	<1W										
Display	LED+APP										
Communication	RS485 (Meter), Wi-Fi+Bluetooth, DRM										
Certifications and Standards											
Grid Regulation	IEC61727, IEC62116, EN50549, CQC(NB/T32004)										
Safety/EMC	IEC62109-1/2, EN61000-6-1/2/3/4										
Standard Warranty	5 Years/10 Years (Optional)										



Grid Tied Inverter

Product Release Soon

Three Phase: GT3-30K/33K T1 GT3-36K/37K5/40K/50K/60K Q1

LIVOLTEK GT3-30~60kW PV inverters are widely used in residential, commercial and industrial roofs. The maximum input current of each PV string is 20A, also compatible with 600W+ modules in the global markets. Combined with 3/4-way MPPT and precise algorithm, it's the ideal option for rooftop photovoltaic systems with complex orientations and various components. The inverters with wide operating voltage range of MPPT and low start-up voltage ensure longer working time and more power generation, supporting functions such as shadow scanning, remote operation and maintenance, so as to maximize continuous long-term benefits for end-users.

Features

- 24/7 live monitoring
- String current up to 20A
- AFCI function (optional)
- Night SVG function
- Export limitation (optional)
- Built-in PID recovery function

24/7 Live Monitoring

Night SVG Function

Optional Internal Integrated AFCI Module

Built-in PID Recovery Function

Compatible Products

Wi-Fi Dongle

Smart Meter

Monitoring System

Specifications

Preliminary

Model	GT3-30KT1	GT3-33KT1	GT3-36KQ1	GT3-37K5Q1	GT3-40KQ1	GT3-50KQ1	GT3-60KQ1
PV Input							
Max. PV Input Power	45000Wp	49500Wp	54000Wp	56250Wp	60000Wp	75000Wp	90000Wp
Max. PV Input Voltage	1100V						
Start-up Input Voltage	180V						
Nominal Input Voltage	620V						
MPPT Voltage Range	180V-1000V						
Max. PV Input Current	40A/40A/40A		40A/40A/40A/40A				
Max.Short Circuit current	52A/52A/52A		52A/52A/52A/52A				
No. of MPPTs	3		4				
No. of Strings per MPP Tackers	2/2/2		2/2/2/2				
AC Output							
Nominal AC Power	30000W	33000W	36000W	37500W	40000W	50000W	60000W
Max. Apparent Power	33000VA	36300VA	39600VA	37500VA	44000VA	55000VA	60000VA
Rated AC Grid Output Current	45.6A	50.1A	54.7A	57.0A	60.8A	76.0A	91.0A
Max. AC Output Current	50.1A	55.2A	60.2A	57.0A	66.9A	83.6A	91.0A
Rated AC Grid Voltage	3/N/PE,3/PE,380V/400V						
AC Grid Voltage Range[1]	310V~480V						
Rated Grid Frequency	50Hz/60Hz						
Grid Frequency Range[2]	45Hz-55Hz/55Hz-65Hz						
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8Lagging)						
THDi, Rated Power[%]	<3%						
Efficiency							
Max. Efficiency	98.50%	98.50%	98.50%	98.50%	98.50%	98.50%	98.50%
Euro Efficiency	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%
MPPT Efficiency	>99%						
Protection							
Surge Arrester	Type II						
AC Short Circuit Protection	Support						
Anti-islanding Protection	Support						
Shade Fix Function	Support						
Integrated PID recovery	Support						
AC Auxiliary Power Supply (APS)	Support						
Residual Current Monitoring Unit	Support						
Integrated AFCI (Arc-Fault Circuit Protection)	Optional						
General Data							
Dimension (W*H*D)	481*613*251mm						
Weight	44kg	44kg	44kg	47kg	47kg	47kg	47kg
Protection Degree	IP65						
Cooling	Fan						
Operating Temperature Range	-30°C ~ +60°C (Derating at 45°C)						
Night Self Consumption	<3W						
Display	LED+APP						
Communication	RS485 (Meter/GEN/DRM), Wi-Fi						
Certifications and Standards							
Grid Regulation	IEC61727, IEC62116, EN50549						
Safety/EMC	IEC62109-1/-2; EN61000-6-1/2/3/4						
Standard Warranty	5 Years/10 Years (Optional)						

Off-Grid Hybrid Inverter

GF1-3K524S2/6K248S2/6K248P2

The LIVOLTEK off-grid hybrid inveter is an important part of the off-grid solar power system. With online and offline monitoring and management platform forevery inverter, this smart solar inverter can offer continuous power to your home. lt can also run directy, with or without batteries, sharing eneray from utility and solar to loads alternatively. Tntegrate multiple protections and fault monitoring to ensure the safety of batteries and equipment.

Features

- Maximum efficiency up to 96%
- Safe, compact, reliable, and cost-effective
- Parallel operation with up to 12 units, support 1 & 3 phase
- Scalable battery up to 5 sets (25 kWh)
- Max. input voltage: 500V, MPPT range: 60~450V
- Support multiple output priority: UTL, SOL, SBU, SUB

Power Expandable and Flexible

Low Standby Power Consumption for Greater Economic Efficiency

Lead-acid/ Lithium Battery

Generator Compatibility

Compatible Products

Residential Lithium Battery

Monitoring System

Wi-Fi Dongle

Specifications

Model	GF1-3K524S2	GF1-6K248S2	GF1-6K248P2
Capacity	3.5kVA/3.5kW	6.2kVA/6.2kW	6.2kVA/6.2kW
Parallel Capability	NO	NO	YES,12 Units
Input			
Nominal Voltage	230V AC		
Acceptable Voltage Range	170-280V AC(For personal Computer); 90-280V AC(For Home Appliances)		
Frequency	50/60 Hz(Auto sensing)		
Output			
Nominal Voltage	220/230V AC±5%		
Surge Power	7000VA	12400VA	12400VA
Frequency	50/60Hz		
Waveform	Pure Sine wave		
Transfer Time	10ms(For personal Computer); 20ms(For Home Appliances)		
Peak Efficiency(PV to INV)	96%		
Peak Efficiency(Battery to INV)	93%		
Overload Protection	5s@≥140%load 10s@100%~140%load	5s@≥140%load 10s@100%~140%load	5s@≥150%load 10s@110%~150%load
Crest Factor	3:1		
Admissible Power Factor	0.6~1(inductive or capacitive)		
Battery			
Battery Voltage	24V DC	48V DC	48V DC
Floating Charge Voltage	27V DC	54V DC	54V DC
OverCharge Protection	33V DC	63V DC	63V DC
Charging Method	CC/CV		
Lithium Battery Activation	YES		
Lithim battery Communication	YES(RS485)		
Solar Charger & Ac Charger			
Solar Charger Type	MPPT		
Max.PV Array Power	4000W	6500W	6500W
Max.PV Array Open Circuit Voltage	500V DC		
PV Array MPPT Voltage Range	60V DC~500V DC		
Max.Solar Input Current	15A	27A	27A
Max.Solar Charge Current	100A	120A	120A
Max.AC Charge Current	80A	80A	80A
Max.Charge Current(PV+AC)	100A	120A	120A
Physical			
Dimensions(D*W*H)	358*295*100 mm	438*295*105 mm	450*300*130 mm
Package Dimensions(D*W*H)	465*380*175 mm	560*375*185 mm	540x390x210 mm
Net Weight	8.2 kg	8.7 kg	12 kg
Communication Interface	RS232+RS485	RS232+RS485	RS232/RS485/Dry-contact
Environment			
Operating Temperature Range	(-10℃~50℃)		
Storage Temperature	(-15℃~50℃)		
Humidity	5%to 95%Relative Humidity(Non-condensing)		
Standard Warranty	2 Years		

Off-Grid Hybrid Inverter

GF1-3K24S1/3K48S1/5K48S1/6K48S1

The LIVOLTEK off-grid hybrid inverter is an important part of the off-grid solar power system. Built-in MPPT solar charge controller, integrated functions of a solar charger and battery charger, this smart solar inverter can be connected to the public grid and manage a PV system with a battery bank to offer continuous power. It can also run directly, without batteries,sharing energy from utility and solar to loads alternatively. Free app to monitor your solar system both locally (with the integrated bluetooth) and remotely (via an optional Wi-Fi module) at any time.

Features

- Maximum efficiency up to 98%
- Parallel operation with up to 3 units
- Safe, compact, reliable, and cost-effective
- Scalable battery up to 5 sets(25KWh)
- Max. Input Voltage: 500V, MPPT range 60~450V
- Automatic switching 2 mode: Backup/Economic Mode

Parallel Support up to 3 Units

Wi-Fi/Bluetooth

Lead-acid/ Lithium Battery

Generator Compatibility

Compatible Products

Residential Lithium Battery

Optical LCD Screen

Monitoring System

Specifications

Model	GF1-3K24S1	GF1-3K48S1	GF1-5K48S1	GF1-6K48S1
Capacity				
Rated Power	3000VA /3000W	3000VA /3000W	5000VA /5000W	6000VA /6000W
Peak Power	6000VA	6000VA	10000VA	10000VA
PV Input Data				
Max. PV Input Power	3600Wp	3600Wp	6000Wp	6000Wp
Max. PV Input Voltage	500V			
MPPT Voltage Range	60V~450V	90V~450V		
Max. PV Current	14A	14A	25A	25A
Max.Short Circuit Current	17A	17A	31.25A	31.25A
No. of MPPTs/Strings per MPPT	1/1	1/1	1/2	1/2
AC Input Data				
Input Voltage Waveform	Sinusoidal			
Rated Input Voltage	230V			
Selectable Voltage Range	170~280V (Computers) 90~280V (Appliances)			
Rated Input Frequency	50Hz/60Hz			
Frequency Range	45-55Hz /55-65 Hz			
Max. AC to DC Efficiency	>93%	>95%	>95%	>95%
Max. Input Current	13.0 A	13.0 A	21.7 A	27 A
AC Output Data				
Output Waveform	Pure Sine Wave			
Rated Power	3000VA /3000W	3000VA /3000W	5000VA /5000W	6000VA /6000W
Peak Power	6000VA	6000VA	10000VA	12000VA
Rated Voltage	220/230/240V±5%	220/230/240V±5%	220/230/240V±5%	220/230/240V±5%
Typical Transfer Time	10ms			
Surge Power	10sec (110% ~ 150%), 2sec (150% ~ 200%)			
Max. Efficiency (PV to AC)	98%			
Max. Efficiency	94%	95%	95%	96%
Rated Grid Frequency	50Hz/60Hz			
Grid Frequency Range	45-55Hz /55-65 Hz			
Power Factor	1			
THDv, Rated Power[%]	<3%			
Battery & Charger				
Battery Type	Lead-acid/Lithium			
Rated Battery Voltage	24V	48V		
Charging Algorithm	3-Step			
Communication with BMS	CAN			
Solar Charger Type	MPPT			
Max. Solar Charging Current	120A	60A	100A	100A
Max. AC Charging Current	120A	60A	100A	100A
Max. Charging Current	120A	60A	100A	100A
General Data				
Dimension (W*H*D)	317*507*123 mm	338*485.5*147.3 mm		
Weight	10kg	11kg	12kg	12kg
Protection Degree	IP21			
Cooling	Fan			
Operating Temperature Range	- 10℃ ~ 55℃			
Standby Power Consumption	< 15W			
Display	LED+APP/ LCD (Optional)			
Communication	CAN/USB/Dry Contact/Bluetooth/NTC/ RS485/Wi-Fi/LCD (Optional)			
Standard Warranty	2 Years			

Off-grid: ESS Inverter

SF1z1K12100/SF1-1K12100

ESS Hybrid Inverter is an integrated facility that helps your home develop a solar power system for your daily electricity needs, so you can rely less on the utility grid, no longer worry about unstable power suppliers, and use green power and your own PV system. The energy storage system allows you to store solar energy for later use. Its integrates DC ports and AC ports. Its box-type design is easy to place, and the top handle design makes it easy to move. It can be used anytime, anywhere, making your life more convenient and environmentally friendly.

Features

- Compact, reliable, and cost-effective design
- 3 times peak power with high loading capability
- 3 operating modes: AC first/Solar first / Energy-saving
- All-in-one combination of inverter, solar controller, and battery
- Multiple output: 2 AC sockets, 4 DC 12V ports, and 2 USB ports
- PV Input Current 40Amax；Grid+PV Input Current 55A

Reliable

3x Peak Power

Wi-Fi

Generator Compatibility

Compatible Products

Low-Voltage Residential Battery (12V 100Ah)

Wi-Fi Dongle

Monitoring System

Specifications

Model	SF1z1K12100	SF1-1K12100
Capacity		
Rated Power	1000VA /1000W	
Peak Power(20ms)	3000VA	
PV Charger Data		
Solar Charger Type	-	PWM
Max. PV Input Power	-	560Wp
Max. PV Input Voltage	-	50V
MPPT Voltage Range	-	15V~44V
Max. Solar Charging Current	-	40A
AC Input Data		
Input Voltage Waveform	Sinusoidal	
Rated Input Voltage	230Vac	
Selectable Voltage Range	170~285V (Computers) / 90~285V (Appliances)	
Rated Input Frequency	50Hz/60Hz	
Frequency Range	45-55Hz /55-65 Hz	
Max. Input Current	4.5A	
Output Data		
AC Output Waveform	Pure Sine Wave	
AC Start Motor	1HP	
AC Output Rated Voltage	220/230/240V±10%	
AC Output Typical Transfer Time	＜4ms	
AC Output Surge Power	100%~110%(Alarm), 110% ~ 120%(30sec),＞120%(2sec)	
AC Max. Efficiency (Battery Mode)	85%	
Rated Frequency	50Hz/60Hz	
Power Factor	1	
THDv, Rated Power[%]	<3%	
DC Output voltage	4*DC 12V; 2*USB(5V)	
Battery & Charger		
Inbuilt Battery Type	Lead-acid	
Inbuilt Battery Capacity	1*100AH	
Rated Battery Voltage	12V	
	Charge Voltage :14.2V; Float Voltage:13.8V (Single Battery Voltage)	
Charging Algorithm	3-Step (Constant Current, Constant Voltage, Floating Charge)	
Max. Charging Current	15A	55A(PV+AC)
Protection		
System Protection	Battery undervoltage alarm/protection，Battery overvoltage alarm/protection，Overload power protection，Inverter output short circuit protection，Temperature protection	
Working Mode		
Working Mode	Battery First/AC First/Saving Energy Mode/Solar Fisrt(SF1-1K12100)	
General Data		
Protection Degree	IP21	
Cooling	Fan	
Operating Temperature Range	- 10℃ ~ 40℃	
Display	LCD	
Communication	NTC/ RS485/Wi-Fi	
Dimension (W*H*D)	488*232*450 mm	
Net Weight (Without Battery)	16kg	
Packing Dimension (W*H*D)	550*295*625 mm	
Gross Weight (Without Battery)	21kg	
Packing Quantity/CTN	1pcs per Wooden case	

Off-grid: Backup Inverter

GF1-1KZ12S1/3KZ24S1/1K12S1/3K24S1

Designed for apartment or house, LIVOLTEK Backup Inverter using solid materials is more durable and last longer, which will save your time and money. The inverter equipped with a transformer for outstanding shock resistance ability. The inverter features a built-in MPPT solar charge controller, easy installation, and an LCD for users to understand its working status.

Features

- Compact, reliable, and cost-effective features
- 3 operating modes: AC first/Solar first / Energy-saving
- Adjustable AC charging current range of 0-30A for flexible battery configurations
- RS485 communication port and optional APP support
- PV Input Current 60Amax；Grid+PV Input Current 80A
- Compatible with charging from diesel or petrol generators in challenging electricity environments

Lead-acid/
Lithium Battery

3x Peak Power

Wi-Fi

Generator
Compatibility

Compatible Products

Residential Lithium Battery

Optical LCD Screen

Monitoring System

Specifications

Model	GF1-1KZ12S1	GF1-3KZ24S1	GF1-1K12S1	GF1-3K24S1
Capacity				
Rated Power	1000VA /1000W	3000VA /3000W	1000VA /1000W	3000VA /3000W
Peak Power(20ms)	3000VA	9000VA	3000VA	9000VA
PV Input Data				
Solar Charger Type	-	-	MPPT	
Max. PV Input Power	-	-	560W(40A)	1680W(60A)
Max. PV Input Voltage	-	-	150V	150V
MPPT Voltage Range	-	-	15V~120V	30V~120V
Solar Charging Current	-	-	40A	60A
AC Input Data				
Input Voltage Waveform	Sinusoidal			
Rated Input Voltage	230Vac			
Selectable Voltage Range	170~285V (Computers) / 90~285V (Appliances)			
Rated Input Frequency	50Hz/60Hz			
Frequency Range	45-55Hz /55-65 Hz			
Max. Input Current	4.5A	13.0 A	4.5A	13.0 A
AC Output Data				
Output Waveform	Pure Sine Wave			
Start Motor	1HP	3HP	1HP	3HP
Rated Voltage	220/230/240V±10%			
Surge Power	100%~110%(Alarm), 110% ~ 120%(30sec), ＞120%(2sec)			
Max. Efficiency(Battery Mode)	85%			
Rated Frequency	50Hz/60Hz			
Typical Transfer Time	＜4ms			
Power Factor	1			
THDv, Rated Power[%]	<3%			
No Load Loss(Battery Mode)	≤0.8% rated power			
No Load Loss(AC Mode)	≤2% rated power(charger does not work in AC mode)			
No Load Loss (Energy Saving Mode)	≤10W			
Battery & Charger				
Battery Type	Lead-acid			
Rated Battery Voltage	12V	24V	12V	24V
	Charge Voltage :14.2V; Float Voltage:13.8V(Single battery voltage)			
Charging Algorithm	3-Step(Constant Current, Constant Voltage, Floating Charge)			
Max. Charging Current	15A	20A	55A(PV+AC)	80A(PV+AC)
Protection				
System Protection	Battery undervoltage alarm/protection,Battery overvoltage alarm/protection,Battery overvoltage recovery voltage/Overload power protection,Inverter output short circuit protection/Temperature protection			
Working Mode				
Working Mode	Battery First/AC First/Saving Energy Mode			
General Data				
Dimension (W*H*D)	500*300*140 mm			
Weight	12kg		24kg	
Protection Degree	IP21			
Cooling	Fan			
Operating Temperature Range	- 10℃ ~ 55℃			
Display	LCD			
Communication	NTC/ RS485/Wi-Fi			
Standard Warranty	2 Years			

Off-grid: MPPT Solar Controller

SCC-30124/60124/3048/6048

MPPT (Maximum Power Point Tracking)Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

Features

- Tracking efficiency up to 99%
- Full range of electronic protection functions
- Ultra wide photovoltaic input voltage range, more convenient systemconfiguration
- Intelligent battery management function, extending battery life
- It supports a variety of lead-acid batteries and lithium batteries, and users
- cancustomize the charging and discharging parameters

LCD

3-stage Charging

WiFi

Li-thium/Gel/
Lead-acid

Compatible Products

Residential Lithium Battery

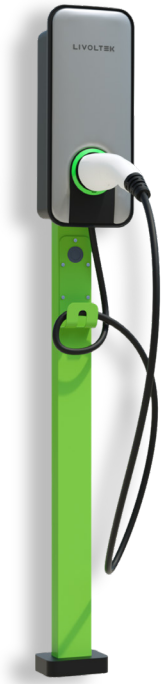
Monitoring System

Specifications

Model	SCC-30124	SCC-3048	SCC-60124	SCC-6048
Capacity				
Rated Current	30A		60A	
PV Input				
Max. PV Input Power	12V system: 140W(10A)/280W(20A)/420W(30A)/560W(40A)/700W(50A)/840W(60A); 24V system: 280W(10A)/560W(20A)/840W(30A)/1120W(40A)/1400W(50A)/1680W(60A); 48V system: 560W(10A)/1120W(20A)/1680W(30A)/2240W(40A)/2800W(50A)/3360W(60A)			
Max. PV Input Voltage(Voc)	120V@12V/24V,180V@48V			
MPPT Voltage Range	12V system: 15V-80V; 24V system: 30V-100V; 48V system: 60V-140V			
Recommended Operating Voltage Range	12V system: 15V-30V; 24V system: 30V-60V; 48V system: 60V-90V			
Max. PV Current/Short Circuit Current	14A/17A		14A/17A	
Battery & Charger				
Battery Type	Lead acid battery/Lithium battery (Users can customize charging parameters for other types of batteries)			
Floating/Charge Voltage	13.8V/14.2V/Single battery			
Charging Mode/Method	MPPT maximum power point tracking/Three stages: CC(MPPT); CV; CF			
Protection	Over-voltage/under-voltage/over-temperature/Anti-reverse connection protection			
Communication with BMS	RS485			
Conversion Efficiency	>98%			
General Data				
Machine Size(L*W*H)	214*155*72.8 mm		238*180*82 mm	
Thermal Method	Cooling fan in intelligent control			
Type Of Mechanical Protection	IP20			
Operating Temperature	-15℃~+50℃			
Display	LCD+APP			
Standard Warranty	2 Years			

Residential AC Charger

Single Phase:3.7kW/7.3kW Three Phase: 11kW/22kW



The LIVOLTEK Smart EV Charger is the most cutting-edge smart charger available for wall and column installation. It is compact in size, exquisite in appearance, and easy to install. Thanks to its user-friendly APP, it is easy for users to charge independently and economically. It's surely the best choice for passenger vehicle owners to charge their vehicles by taking the advantage of the time of use tariff and PV system.

Type2 Connector

Features

- Built-in RCD protection
- Low standby power consumption
- 3 charging modes: Fast, Dynamic, ECO
- Real-time load management and demand response
- IP54 provides high adaptability
- Compatible with all branded EV
- Wi-Fi/4G/Ethernet communication
- OCPP compliance enables backend system integration

PV Charging

Dynamic Charging

Time of Use Schedule

OTA Remote Access

Compatible Products

All-in-one Energy Storage System

DCM

Smart Meter

Monitoring System

Specifications

Model	A0070230E11	A0110400E11	A0220400E11
Product Name	Single-phase Residential AC Charger	Three-phase Residential AC Charger	Three-phase Residential AC Charger
Input/Output			
Rated Power	7.3kW	11kW	22kW
Rated Voltage	230Vac±10%	400Vac±10%	400Vac±10%
Rated Frequency	50Hz/60Hz		
Current Range	6～32A	6～16A	6～32A
Charging Interface Type	Type 2/5m		
Specifications of Incoming Cables	3*6mm²	5*2.5mm²	5*6mm²
Basic Features			
User Authorization	Free Charging, MyLivoltek APP(Bluetooth & Remote & Schedule)		
Cooling	Natural Cooling		
Operating Temperature	-30℃～50℃		
Storage Temperature	-40℃～70℃		
Operating Humidity	5%～95%RH		
Operating Altitude	≤2000m		
IP Degree	IP54		
Dimension (W*H*D)	170*400*110mm		
Weight	3.7kg	3.8kg	5.1kg
Way of Installation	Wall Mounting (Column Optional)		
Energy Management	Support		
Standby Power Consumption	<5W		
Other Features			
Status Indication	3 Color LED		
Firmware Upgrade	Local/OTA		
Way of Communication	Bluetooth; Wi-Fi/Ethernet/4G Optional		
Emergency Stop Protection	Support		
Save Charging Record When Power Off	Support		
Electricity Measurement	Build-in Metering Chip		
External Communication	RS485/CAN		
Communication Protocol	LIVOLTEK Protocol / OCPP 1.6J		
Protection Function			
Residual Current Protection	6mA DC RCD Internal		
Multiple Protection	With Over Voltage Protection, Under Voltage Protection, Overcurrent Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check and Other Multiple Protection Functions.		
Standard			
EMC	IEC-61851-21-2-2018		
Safety	IEC-61851-1-2017		

Residential AC Charger

Single Phase: 3.7kW/7.3kW Three Phase: 11kW/22kW

The LIVOLTEK smart EV charger is the most cutting-edge smart charger available for wall and column installation. Flexible compatibility with 3.7kW, 7.3kW, 11kW, and 22kW maximum power EVs, selectable socket outlet or connector type, it is also compact in size, exquisite in appearance and easy to install. Thanks to its combination with LIVOLTEK inverters and user-friendly APP operation, it is easy for users to charge intelligently and economically by forming a solar charging system, which includes inverters, batteries and some necessary accessories. It's the best choice for electric vehicle owners to charge their vehicles by taking advantage of the time-of-use tariff and photovoltaic system.

Type 2s Socket Type2 Socket

Features

- 3 charging modes: fast, dynamic, ECO
- OCPP 1.6J Protocol (subsequent free upgrade 2.0.1)
- Integrated leakage current monitoring (AC 30mA + DC 6mA)
- IP65, IK10 Protection
- RFID user authorization
- Smart dynamic load balance control

PV Charging

Dynamic Charging

Time of Use Schedule

OTA Remote Access

Compatible Products

All-in-one Energy Storage System

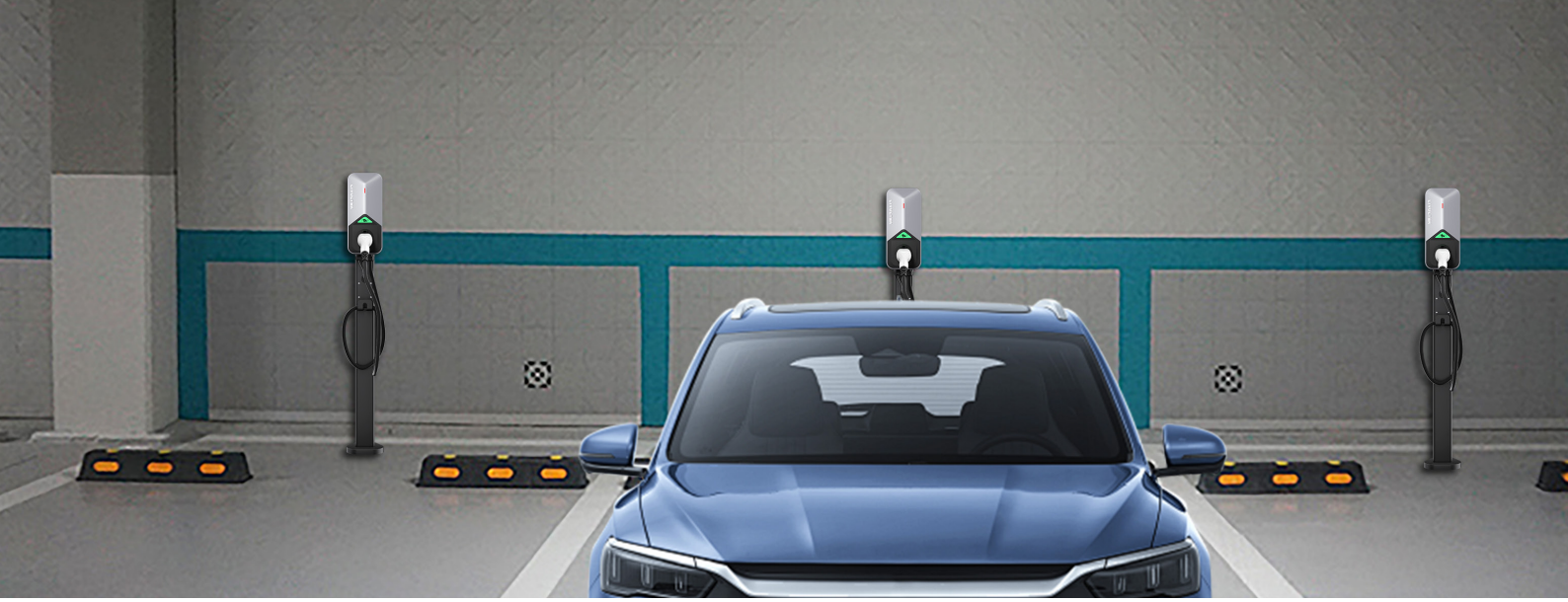
DCM

Smart Meter

Monitoring System

Specifications

Model	A0030230E1SH	A0070230E1SH	A0110400E1SH	A0220400E1SH
Product Name	Single Phase Socket 3.7kW	Single Phase Socket 7.3kW	Three Phase Socket 11kW	Three Phase Socket 22kW
Input/Output				
Rated Power	3.7kW	7.3kW	11kW	22kW
Rated Input Voltage	230Vac		400Vac	
Input Voltage Range	230Vac±15%		400Vac±15%	
Rated Output Current	16A	32A	16A	32A
Output Current Range	6A~16A	6A~32A	6A~16A	6A~32A
Rated Frequency	50Hz/60Hz			
Grid Architecture	TT/TN-S/TN-C-S			
Charging Interface	Type2 socket, Type 2s socket (Optional) （5m/7m 2plug Cable Optional）		Type2 socket, Type 2s socket (Optional) （5m/7m 2plug Cable Optional）	
Connection Mode	Case B			
Protection				
Leakage Current Protection	AC 30mA + DC 6mA			
Surge Protection	Support			
Overvoltage Protection	Support			
Undervoltage Protection	Support			
Overcurrent Protection	Support			
Grounding Protection	Support			
Short Circuit Protection	Support			
Over Temperature Protection	Support			
General Data				
Dimension (W*H*D)	170X393X145 mm			
Weight	4.6kg	4.6kg	5.7kg	4.6kg
Installation Mode	Wall Mounting (Column Optional)			
IP Degree	IP65			
IK Degree	IK10			
Cooling	Natural Cooling			
Working Temperature	-30℃～50℃			
Storage Temperature	-40℃～70℃			
Working Humidity	5%～95% RH			
Working Altitude	≤2000m			
Working Noise	0dB			
Standby Power	＜5W			
User Indicator	LED+APP			
Networking Mode	Bluetooth; Ethernet； Wi-Fi/4G (Optional)			
User Authorization	Free Charging, RFID, MyLivoltek APP(Bluetooth & Remote & Schedule)			
Charging Mode	Fixed, Demand Response			
Power Management	Support			
Firmware Update	Local / OTA			
Electricity Metering	Support			
Save Charging Record When Power Off	Support			
External Communication	RS485 / CAN			
Communication Protocol	LIVOLTEK Protocol / OCPP 1.6J			
Standard				
EMC	IEC-61851-21-2-2018			
Safety	IEC-61851-1-2017			



Commercial AC EV Charger

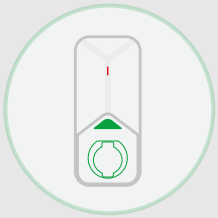
Single Phase:7.3kW Three Phase: 11kW/22kW

Livoltek Commercial AC EV charger series with IP65 outdoor design can adapt to any business, workplace, commercial and home locations as well. LIVOLTEK offering stylish, intelligent and customoziable covers, selectable socket outlet or connector, always one you like. While equipped with build-in smart KWH meter, it also has the ability to reponse to external energy meter or dynamic load management terminals, ready for integrating with your advanced smart building and parking energy system.

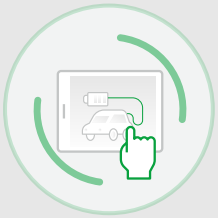
Type 2s Type2

Features

- Connector or Socket Outlet Selectable
- Integrated ISO 14443 RFID reader
- Multi connectivity access
- OCPP 1.6J Protocol (subsequent free upgrade 2.0.1)
- Build-in KWH meter
- Integrated leakage current monitoring (AC 30mA + DC 6mA)
- External Dynamic Load Response Ready
- IP65 Outdoor Design



Customzied Cover Design



Intelligent Management

Dynamic Load Response Ready

CMS Ready with OCPP1.6J

Accessory

Rectangle Stand

Triangular Stand

Type2 to Type2s EV Charing Cable

LIVOLTEK Smart Charging System

Specifications

Model	A0070230E1EY	A0070230E1SY	A0110400E1EY	A0220400E1EY	A0110400E1SY	A0220400E1SY
Product Name	Single Phase Connector 7.3kW	Single Phase Socket 7.3kW	Three Phase Connector 11kW	Three Phase Connector 22kW	Three Phase Socket 11kW	Three Phase Socket 22kW
Input/OutpuB15:B53						
Rated Power	7.3kW	7.3kW	11kW	22kW	11kW	22kW
Rated Input Voltage	230Vac		400Vac			
Input Voltage Range	230Vac±15%		400Vac±15%			
Rated Output Current	32A		16A	32A	16A	31A
Output Current Range	6A~32A		6A~16A	6A~32A	6A~16A	6A~32A
Rated Frequency	50Hz					
Input Cable Specification	5*6Φ	/	5*2.5Φ	5*6Φ	/	/
Grid Architecture	TT/TN-S/TN-C-S					
Charging Interface	Type2 Connector, 5m/7m cable (Optional)	Type2 socket (Type 2s socket Optional)	Type2 Connector, 5m/7m cable (Optional)		Type2 socket, Type 2s socket (Optional) （5m/7m 2plug Cable Optional）	
Connection Mode	Case C	Case B	Case C		Case B	
KWH Meter	Build-in MID certify meter, class B					
Protection						
Leakage Current Protection	AC 30mA + DC 6mA					
Surge Protection	Support					
Overvoltage Protection	Support					
Undervoltage Protection	Support					
Overcurrent Protection	Support					
Grounding Protection	Support					
Short Circuit Protection	Support					
Over Temperature Protection	Support					
General Data						
Dimension (W*H*D)	170X393X145 mm					
Weight	6.1kg	5kg	6.1kg	6.7kg	5.9kg	6.6kg
Installation Mode	Wall mounted (Column mounted optional)					
IP Degree	IP65					
IK Degree	IK10					
Cooling	Natural cooling					
Working Temperature	-30℃～50℃					
Storage Temperature	-40℃～70℃					
Working Humidity	5%～95% RH					
Working Altitude	≤2000 m					
Working Noise	0dB					
Standby Power	＜5W					
User Indicator	LED					
Networking Mode	Bluetooth, Ethernet, WiFi/4G (optional)					
Power Management	Support					
Firmware Update	Local / OTA					
User Authorization	RFID(ISO 14443), APP					
Save Charging Record When Power Off	Support					
External Communication	RS485 / CAN					
Communication Protocol	OCPP 1.6 J					
Standard						
EMC	IEC-61851-21-2-2018					
Safety	IEC-61851-1-2017					

Smart DC EV Charger

60kW/120kW + 22kW AC Optional **Produrt Release Soon**

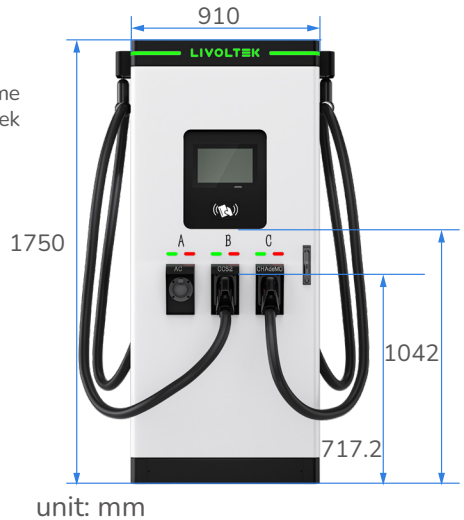
CHAdeMO | CCS1 | CCS2 | Type2 AC | GB/T

AC&DC charging all-in-one design, maximum 120kW DC output for quick and flexible charging.

LIVOLTEK All-in-one fast charging system is integrated with CCS, CHAdeMO and AC connectors, supporting charging three electric vehicles at the same time and introducing a retractable cable management system for effortless pick-up and drop-off without touching the ground. It complies with all IEC standards for off-board electric vehicle charging systems, including IEC 61851-21-2 EMC requirement and IEC 61851-24 digital communication control.

Features

- Future-proof design via open industry standards, support remote update to OCPP2.0.1 protocol.
- CE, UKCA and RoHS certification, suitable for all European countries need
- Multi Outlet Compliance with CCS2, CCS1, CHAdeMO, GB/T, Type2 socket & connector.
- Interaction via 10“color touch display
- Multi User Authorization with RFID, APP, customized NFC payment
- Load management & real-time demand response ready with Livoltek DCM
- Integrated retractable cable management system
- MID Compliance Meter



unit: mm

Specifications

Model	M0601000E3	M1201000E3
Product Name	Fast Charge Station	
Input/Output Data		
Rated Power	DC 60kW/120kW + AC 22kW Optional	
AC Connection	3P+N+E	
AC Input Voltage	260~530Vac	
AC Input current.	0~264A	
Rated Frequency	50/60Hz	
Power Factor	≥0.99 at norminal load	
THD	≤5%（50%～100% load）	
Output Voltage Range	150~1000Vdc	
Output Constant Power	300~1000Vac	
Output Current Range	CCS2/CCS1：0~250A CHAdeMO：0~125A Type2 AC: 6~32A (Optional)	
Output Efficiency	≥95%（100% Load）	
Basic Features		
Environment of use	Indoor / Outdoor	
User Authorization	RFID (ISO 14443 A/B), APP, Contactless NFC Customized	
Working Noise	80dB (Peak), ≤ 70dB （Nominal Load）	
Operating Temperature	-20℃～50℃	
Storage Temperature	-30℃～70℃	
Working Humidity	5%～95% RH	
Working Altitude	≤2000m	
IP/IK Degree	IP54/IK10	
Cooling	Force Fan Cooling	
Dimension(W*H*D)	910*1750*575 mm	
Energy Management	Support	
Weight	≤300kg	
Standby Power Consumption	≤40W	
Length of Charging Cable	5m / 7m customized	
Standard Warranty	2 years, extend + 1 year / + 2 years	
Other Features		
Firmware Upgrade	Local （USB）/ OTA	
Way of Communication	4G/Ethernet	
Save Charging Record When Power Off	Support	
External Communication	RS485/CAN	
Communication Protocol	OCPP 1.6J, support update to OCPP 2.0.1	
User Interface	10.1" Touch Screen； Charging LED Indicators	
Protection		
Multiple Protection	Overvoltage Protection, Undervoltage Protection, Overcurrent Protection, Over Temperature Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check, In sulation Detection and Other Multiple Protection Functions.	
Leakage Current Protection	Type B RCBO for AC Type A RCD for DC	
Standards		
Safety	IEC 61851-1, IEC-61851-23, IEC 61851-21-2, IEC 62196-2/3	
EMC	IEC 61851-21-2 Class B	
Communication	IEC 61851-24, DIN 70121, ISO/IEC 15118	

* Will be launched in 2024.Q2

Energy Monitoring System

APP / Web

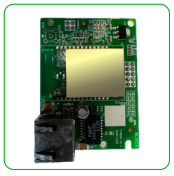
The LIVOLTEK Energy Monitoring System provides live status updates and graphical analysis that you need for smarter, simpler management of your system to optimise use of your solar generation and save money through time of use functions to match electricity import tariffs. The remote access enables O&M by installers without site visits.

Communication Module

Wi-Fi
Dongle

Build-in Wi-Fi/
Ethernet Stick

Build-in 4G
Stick & Antenna



Build-in
Wi-Fi/Ethernet Stick

View All Home
Power Flows

Track Your Home
Generations & Consumption

Intelligent E-mobility
Charging Schedule

Eliminate Your
Billing Revenue

Compatible Products

Inverter

Smart EV Charger

Smart Meter

My Livoltek App
Cloud Monitoring

2024-01 EN Edition
Specifications are subject to change without advance notice.

LIVOLTEK
Power Your Home With Green Energy

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