

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

- Maximized self-consumption
- Integrated with existing PV inverters
- Easy and economical way to retrofit
- Flexible schedule for charging and discharging
- Extremely quiet
- Intelligent storage management



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 P _{nom} , 60 sec; 1.5 x P _{nom} , 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					
Dimensions(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°C~+60°C (>45°C 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.