



AC Coupled Inverter

Retro-3680/Retro-5000

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 uninterruptible power supply. In addition, you also get the added benefit of easy-to-in-stall, reliable and user friendly.

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



Energy Storage Battery



PSD200-FI Dongle



Smart Meter



Monitoring System

Specifications

Model	Retro-3000	Retro-3680	Retro-4600	Retro-5000
AC Output @ Grid				
Nominal AC Power	3000W	3680W	4600W	5000W
Max. Apparent Output Power	3000VA	3680VA	4600VA	5000VA
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
THDi,Rated Power	<3%			
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)			
EPS Output @ Off Grid				
Nominal EPS Power	2000W	3680W	4600W	5000W
EPS Peak Power	1.1 x Pnom, 10 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
Waveform	Pure Sinusoidal Wave			
THDv(@Liner Load)	< 3%			
Battery Data				
Battery Type	Lead-acid/Lithium			
Nominal Battery Voltage	48V			
Battery Voltage Range	40V-60V			
BMS Communication	CAN			
Max.Charge/Discharge Current	60A	80A	100A	100A
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
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			
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Remarks: The range of output Voltage and frequency may vary depending upon different grid codes.