



LivoPower AC Coupled Inverter

Cost Effective

- Retrofit existing PV system seamlessly
- Minimize peak-time usage and save electric bills
- Improve PV self-consumption to avoid exporting energy to the grid with extra low price

Intelligence and Flexibility

- On-grid & backup power function integrated
- Scalable storage capacity to suit your specific energy demand
- Seamless switchover to keep your power on during outages

Easy Services

- Online visibility of asset's operational conditions via App or Web
- Global training and supporting
- Replaceable boards and spare parts



AC Coupled Inverters with Battery Backup

AC Coupled Inverter is a cost-efficient solution to make it easy to upgrade existing grid-tied systems to hybrid ones. By adding batteries, customers can store the energy during daytime and consume at night or during power outages.

Features

- Natural convection, IP 65
- Integrated with existing PV inverters
- Emergency power supply
- Multiple protection functions
- Self-use / Back-Up / Off-Grid / VPP
- Compact "all-in-one" system
- Intelligent storage management
- "Plug&Play" installation
- Local and remote monitoring
- Compatible with diesel generator

Specifications

Model	Retro-3680	Retro-5000
AC Input Voltage/Frequency	186~264Vac/50 or 60Hz	186~264Vac/50 or 60Hz
Nominal AC Power	3680W	5000W
Nominal AC Current	16.0A	21.7A
THD of AC Current	<3%	<3%
Emergency Power Supply(EPS)		
AC Output Voltage/Frequency	220Vac/50 or 60Hz, Single Phase	
Nominal AC Output Power	3.68KVA	5KVA
Nominal AC Output Current	16A	21.7A
Peak Power	1.1 x Pnom, 10 sec; 1.5 x Pnom, 1 sec	
Power Factor	0.8 inductive to 0.8 capacitive	
Waveform	Pure Sinusoidal Wave	
THD of AC Voltage	<3% with Resistive Load	
Battery Input		
Battery Type	Lithium- ion	
Nominal Battery Voltage	48V	48V
Battery Voltage Range	40- 60V	40-60V
Galvanic Isolation for Battery	Yes	Yes
Max. Charge Current	60A	100A
Max. Discharge Current	60A	100A
Communication	CAN/RS485	CAN/RS485
Protection	Over Voltage, Less Voltage, Over Current, Short Circuit, Over tem.	
Depth of Discharge	Lithium-ion: 0-90% DOD adjustable	
Efficiency		
Max. Charging Efficiency	95.6%	95.6%
Max. Discharging Efficiency	95%	95%
Topology	High Frequency Isolated Transformer	
General Data		
Dimension(W*H*D)	415*675*145mm	415*675*145mm
Weight	33KG	35KG
Ingress Protection	IP65	IP65
Mounting Information	Wall-mounted	Wall-mounted
Operation Temperature	-20 C~+60 C (45 C derating)	-20 C~+60 C (45 C derating)
Relative Humidity	0...95%, no condensation	0...95%, no condensation
Operation Altitude	<2000m	<2000m
Cooling Concept	Natural Convection(No fan)	Natural Convection(No fan)