

ENERGY STORAGE INVERTER

F01 Series

1.5~10kW | 24V,48V | Wifi



0ms Seamless Switching

Zero transfer time ensures uninterrupted power for precision devices and servers.

Heavy-Duty Power Frequency

Industrial-grade transformer easily handles tough inductive loads and 2HP motors.

180A Ultra-Fast Charging

Industry-leading hybrid charge current rapidly replenishes large-capacity battery banks.

Flexible Charging Modes

Selectable energy priorities easily adapt to various local grid conditions and maximize energy utilization.

170-280V Ultra-Wide AC Input

Easily handles severe voltage fluctuations, minimizing unnecessary battery cycling and extending system lifespan.

Model:	F01 24/48-1.5k	F01 24/48-5k	F01 48-6k	F01 48-10k
Inverter output				
Rated output power	1.5kW	3.2kW	6.2kW	10kW
Peak power	1.9kVA	4kVA	7.8kVA	12kVA
Rated output voltage	230/110Vac (single phase)			
Motor starting capability	2HP			
Rated frequency	50/60Hz			
Output waveform	Pure sine wave			
Switching time	0ms			
Battery				
Battery type	Lead-acid battery / Lithium-ion battery / User-defined			
Rated battery voltage	24/48V		48V	
Battery voltage range	21-30Vdc/42-56Vdc		42~56Vdc	
Maximum generator charging current	30A	60A		
Maximum hybrid charging current	90A	120/160A	160A	180A
PV input				
MPPT number	1			2
Maximum input power	1600W	3400/5600W	5600W	7000W
Maximum PV charging current	60A	60/100A	100A	120A
Maximum open circuit voltage	200Vdc			450Vdc
MPPT operating voltage range	33~130Vdc/70~130Vdc		70~130Vdc	70~320Vdc
Mains/generator input				
Input voltage range	170~280Vac			
Input frequency range	50/60Hz			
Mains overload current	30A	40A	70A	
Efficiency				
MPPT tracking efficiency	99.90%			
Maximum battery inverter efficiency	85%			
Basic parameters				
Packaging size	635*405*282mm	685*425*280mm		820*530*335mm
Weight	20kg	24.5kg	31.5kg	72kg
Protection level	IP20 Indoor only			
Operating temperature range	-10°C~55°C			
External module (optional)	Wi-Fi			
Humidity range	5%~95%			
Cooling method	Built-in fan			
Warranty time	3 years			
Communication	RS485/CAN/USB/Dry contact			
Topology	Power frequency transformer			
Certification standard	RoHS/EN61000/IEC 62109/PSE circular certification			
Protection function				

With PV current limiting and power limiting protection,PV nighttime anti-reverse charging protection,AC input overvoltage protection,AC input undervoltage protection,battery overvoltage protection,battery undervoltage protection,load output short circuit protection,radiator overtemperature protection,overload protection,PV anti-reverse protection,AC reverse charging protection,AC overcurrent protection,battery input overcurrent protection,battery input protection,charging short circuit protection