

HYBRID SOLAR INVERTER, US STANDARD

US STANDARD

- Pure Sine Wave Solar Inverter
- Runs Without Battery
- Lithium Battery Auto-Activation
- WiFi & GPRS Monitoring
- Built-in MPPT Solar Controller
- Wide Voltage Input
- Built-in Anti-Dust Kit
- Smart Battery Charge Optimization

Datasheet

Model	3.6KW	6.5KW	12KW
PARALLEL MODE (FUNCTION RESERVED)			
Allow Quantity	1-6		
MAINS MODE			
Nominal Input Voltage	120Vac±5%	120Vac±5%	120(L1/N, L2/N)/240Vac(L1/L2)
Input Phase Voltage Range	(90Vac-140Vac)±2%	(90Vac-140Vac)±2%	(85Vac-140Vac)±2%
Frequency	50Hz/60Hz (Auto Detection)		
Frequency Range	47±0.3Hz-55±0.3Hz (50Hz); 57±0.3Hz-65±0.3Hz (60Hz)		
Max. Efficiency	>95%		
Conversion Time (Bypass And Inverter)	10ms (Typical)		
Max. Bypass Phase Overload Current	40A	63A	2P,63A/63A(L1/L2)
INVERTER MODE			
Output Voltage Waveform	Pure Sine Wave		
Nominal Output Power (VA)/(W)	3600VA/3600W	6500VA/6500W	Split Phase:12000VA/12000W, Single Phase: 7200VA/7200W
Power Factor	1		
Nominal Output Voltage (VAC)	120Vac	120Vac	120Vac (L1/N, L2/N)/240Vac(L1/L2)
Output Frequency Range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz		
Max. Efficiency	>91%		
Overload Protection	(102%<load<125%)+10% report error and turn off output after 5 minutes; (125%<load<150%)+10% report error and turn off output after 10 seconds; Load>150%±5% report error and turn off output after 5 seconds	(same)	(102%<load<110%)±5%; (110%<load<125%)±5%; Load>125%±5%
Peak Power	72000VA	120000VA	Split phase: 18000VA, Single phase: 18000VA
Loaded Motor Capability	2HP	5HP	6HP
Nominal Battery Input Voltage	48V (Minimum starting voltage 44V)		
Battery Voltage Range	40.0Vdc-60Vdc±0.5Vdc	40.0Vdc-60Vdc±0.5Vdc (undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery... settable on LCD screen)	(same)
Save Power Mode	Load<25W Enter Power-Saving Mode		
MAINS CHARGE			
Battery Type	Lead acid or lithium battery		
Max. Charge Current (Configurable)	40A	120A	160A
Charge Voltage Range	40-60Vdc		
SOLAR CHARGE			
Max. PV Open Circuit Voltage	300Vdc	300Vdc	500Vdc
PV Operate Voltage Range	80Vdc-300Vdc	80Vdc-300Vdc	90Vdc-500Vdc
MPPT Voltage Range	90Vdc-260Vdc	90Vdc-250Vdc	90Vdc-450Vdc
Battery Voltage Range	40-60Vdc		
Max. PV Input Power/Current	4000W/22A	4500W×2/22A×2	6000W×2/22A×2
Charge Current Range (Configurable)	0-80A	0-150A	220A
MAX. HYBRID CHARGE CURRENT (PV+AC)			
Max. Hybrid Charge Current (Configurable)	0-80A	0-150A	0-220A
CERTIFICATION			
Safety Certification	CEC / IEC62109-1,2		
EMC Certification Level	EN61000, C2	EN61000, C2	FCC part15, CLASS B
Operate Temperature Range	-15°C to 55°C	-15°C to 55°C	-10°C to 55°C (>45°C derating)
Storage Temperature Range	-25°C ~ 60°C		
Humidity Range	5% to 95% (Three anti-point protection)	5% to 95% (Three anti-point protection)	5% to 95% (Conformal coating protection)
Noise	≤60dB		
Cooling	Forced air cooling, Dual intelligent speed regulating fans		
Communicate	USB/RS485//WiFi//GPRS// Dry node control		
Dimensions (LWD mm)	415*280*100	550*365*130	620*450*132
Weight (KG)	7.8	20	23.8

* If the ambient temperature is too high or too low, performance will be limited.
* Under specific test conditions.