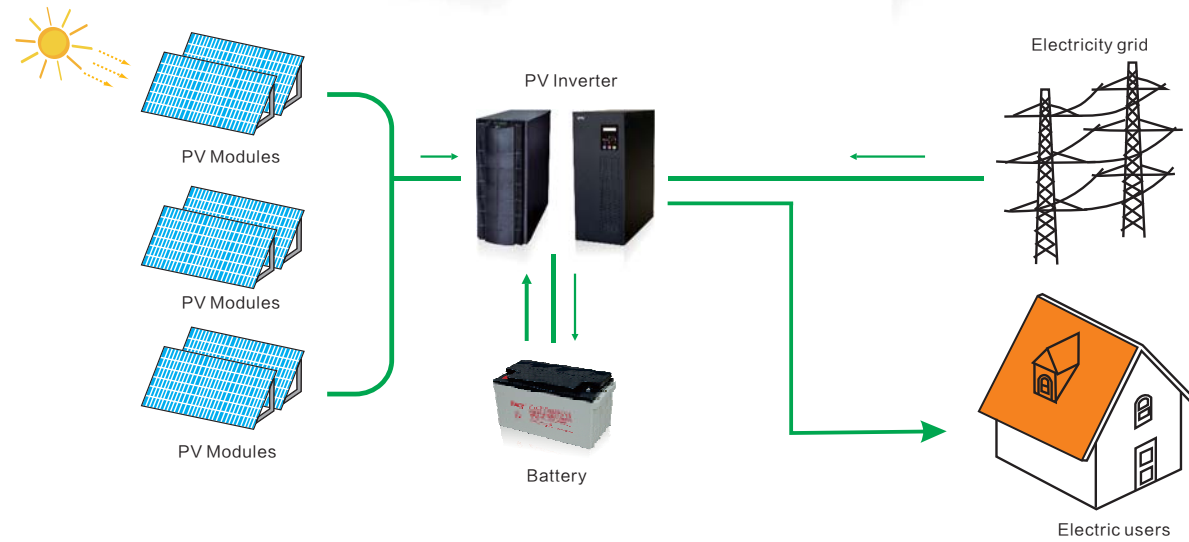


Off-Grid Solar Inverter

PAT 3KW ~ 8KW (with isolated transformer)
PF = 1



Features

- Independent MPPT control microprocessor system
- Independent inverter control microprocessor system featured with high-speed online stabilization
- Advanced SPWM technology, high-speed power MOS
- MPPT control using PWM technology enable to bear the maximum PV open-circuit voltage
- Operating mode selectable: PV priority or utility power priority
- Charging current selectable according to configured battery
- AC input with effective online synchronous stabilization technology
- Auto-tracking mains phase to ensure that inverter output voltage has same phase with utility voltage, reducing transfer time and peak surge
- No-load auto shutdown function (optional)
- Automatic frequency selection
- Auto Power-On/Off function; real-time monitoring, test and intelligent startup / shutdown by RS232 or USB interface communicating with PC; remote monitoring by optional SNMP networks

Technical Data

MODEL	PAT 3000	PAT 4000	PAT 3000	PAT 5000	PAT 6000	PAT 8000
Rated power	3 KW	4 KW	3 KW	5 KW	6 KW	8 KW
Battery voltage	96 Vdc		192 Vdc			
Operating mode	PV priority / AC priority					
PV INPUT						
Input voltage range	96 Vdc ~ 200 Vdc		192 Vdc ~ 400 Vdc			
Max. charging current	10 ~ 60 A selectable		10 ~ 40 A selectable	10 ~ 60 A selectable		
Optimum operating voltage (Vmp)	120 ~ 142 Vdc		240 ~ 284 Vdc			
Max. PV power (Pmax)	5760 W		7680 W	11520 W		
Max. conversion efficiency	98%					
AC INPUT						
Input voltage	165 ~ 275 Vac					
Input frequency	40 ~ 70 Hz (overloading : auto transfer to DC power supply)					
Output voltage	220 Vac ±5%					
Input power factor	≥ 0.8					
Max. efficiency	88% (online mode)					
Max. charging current	8 A		12 A			
Short circuit	Current-limiting, transfer to bypass; air circuit-breaker					
INVERTER OUTPUT						
Output voltage	220 Vac ±5%					
Output frequency	50 Hz / 60 Hz ±1% (auto-sense)					
Waveform	Sinusoidal					
Output power factor	1					
Waveform distortion	≤ 5% (linear load)					
Transfer time (PV - AC)	0 ms					
Max. efficiency	92%					
Short circuit	Current-limiting, transfer to bypass or system auto shutdown					
ALARMS						
Utility power abnormal	4 s per beep , auto mute in 40 s					
Low battery	0.2 s per beep					
Overload	1 s per beep					
COMMUNICATIONS						
Communication interface	RS232, USB, RS485, SNMP (optional)					
Dry contacts	PV fault, low battery, overload, bypass, inverter fault, generator ON / OFF					
OTHERS						
Overload protections	110% for 255 s; 125% for 60 s; 150% for 10 s					
Wiring	Terminal blocks					
EMI	EN62040-2:2006; EN61000-3-2:2006; EN61000-3-3:2008					
IP rating	IP20					
Ambient temperature	0°C ~ 40°C					
Relative humidity	10% ~ 90% (non-condensing)					
Noise	≤ 50 dB					
Operating altitude	2000 m (derating 1% for each additional 100 m)					
Dimensions (W × D × H) (mm)	560 × 265 × 725					
Packaged dimensions (W × D × H) (mm)	662 × 360 × 905					
Net weight (kg)	76	80	60	67	69	85
Gross weight (kg)	85	89	69	76	78	94

Disclaimer:
 • These data in this document are tested under specified conditions. It may result in difference between actual results and these data due to some uncertain factors. The statement about this product is for reference only. It makes no representation or warranty.
 • All specifications subject to change without notice.