Off-Grid Solar Inverter

PAT 500W ~ 3000W (with isolated transformer) PF = 1





Features

- High reliability: adopt high-speed DSP control system, combine advanced SPWM technology and high-speed power MOS
- Operating mode selectable: energy storage priority or power supply priority
- No PID attenuation damage for solar panels to ensure their service life
- · Flexible battery management system: auto switch three-stage charging mode shortens recharge time; wide charging current is selectable according to configured battery; flexible DOD (Depth of discharge) is settable to meet more applications
- AC input with effective online synchronous stabilizing technology
- 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

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Technical Data

MODEL	PAT 500	
Rated power	500 W	
Battery voltage	12 Vdc	
PV INPUT		
Max. input voltage (Voc)	60 Vdc	
Optimum operating voltage (Vmp)	16 ~ 48 Vdc	ć
Max. charging current		
Recommended PV configuration	700 W	
AC INPUT		
AC input range (bypass mode)	(
Rated input voltage	100 Vac / 110 Vac / 11	
Rated Input frequency		
Max. charging current		
INVERTER OUTPUT		
Output voltage	100 Vac / 110 Vac / 1	15 Vac /
Rated output power	500 W	
Power factor		
Rated output frequency		
Waveform		
Max. efficiency (resistive load)	≥ 78%	
Sleep mode		
Output voltage harmonic		
BATTERIES		
Charging current		
DOD		9.6 ~ 1
EOD		9.6 ~ 1
Equalizing charge voltage		13.6 ~
Floating charge voltage		13.2 ~
Restroration point of overvoltage	15.5 Vdc	
OTHERS		
Transfer time		
Overload (linear load)	105% for	5 mins, 1
ECO mode (optional)		
No-load shutdown (optional)		
Load adaptation	Induct	ive load:
Protections	Output overload – short-	circuit –
Lightning protection		
Communications		RS232 /
Standards		
IP rating		
Display		
Operating temperature		
Relative humidity		
Noise	480	
Dimensions (W \times D \times H) (mm)		480
		480 545

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.

PAT 1000	PAT 2000	PAT 3000
1000 W	2000 W 3000 W	
24 Vdc	48 Vdc	
100 Vdc	150 Vdc	
33 ~ 80 Vdc	65 ~ 120 Vdc	
50 A		65 A
1400 W	2800 W	3500 W
	4 Vac (high-end limit)	40.)/050/
	00 Vac / 220 Vac / 230 Vac / 24 Hz (auto-sense)	40 Vac ±25%
20 A	TIZ (auto-sense)	30 A
20 A		30 A
20 Vac. +2% or 200) Vac / 220 Vac / 230 Vac / 240	Vac +2% settable
1000 W	2000 W	3000 W
	1	
50 Hz / 60) Hz ±1%	
Sinu	soidal	
≥ 82%	≥ 85%	≥ 85%
Settable (< 3% load	d) access in ≤ 2 min	
≤ 3% (li	near load)	
5 ~ 50 A	A settable	5 ~ 65 A settable
3.0 Vdc / cell (setta	ble), 10.8 Vdc / cell (default)	
1.5 Vdc / cell (setta	ble), 10.2 Vdc / cell (default)	
15.0 Vdc / cell (setta	able), 14.1 Vdc / cell (default)	
14.6 Vdc / cell (setta	able), 13.5 Vdc / cell (default)	
31.0 Vdc	62.0) Vdc
); ≤ 10 ms (max.)	
	% for 1 min, 150% for 10 s, 18	0% for 1 s
	e), Yes / No settable	
	6, Yes / No settable	1000/
	oad: \leq 50%; resistive load: \leq	
	ercharge – battery reverse pol	arity – PV reverse polarity
	ss III IP / WiFi / Bluetooth (optional)	
	EC / EN 61000	
	221	
	& LED	
	~ 40°C	
	93%	
	0 dB	
× 380 × 202		480 × 380 × 217
× 458 × 278		545 × 458 × 295
18.8	27.7	35
19.8	28.7	36



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