

Features and Technical Specifications



MODEL	12 Volt System 24 Volt System 48 Volt System	PP2000-12E PP2000—24E PP2000—48E	PP4000-12E PP4000-24E PP4000-48E
GENERAL			
Ventilation	Fan Forced cooling	Fan Forced cooling	Fan Forced cooling
Temperature	— Operation — Storage	-20°C~ +70°C -25°C~ +80°C	-20°C~ +70°C -25°C~ +80°C
Protection			
	a. Output short circuit	☐	☐
	b. Over load	☐	☐
	c. Battery voltage too high	☐	☐
	d. Battery voltage too low	☐	☐
	e. DC voltage ripple too high	☐	☐
	f. Temperature Sensor		
	Transformer	(105°C)	(105°C)
	Electronic & Powerstage	(70°C)	(70°C)
	Battery Temp BTS-3	(50°C)	(50°C)
Humidity	0~95% (non condensing)	0~95% (non condensing)	0~95% (non condensing)
Power support Function	☐	☐	☐
Power shifting Function	☐	☐	☐
Uninterrupted AC power	(less than 10 msec)	(less than 10 msec)	(less than 10 msec)
Adaptive 4-stage charge	☐	☐	☐
Two output to charge 2 battery banks	☐	☐	☐

Auxiliary Relay	X 3	X 3	X 3
Parallel operation (Requires optional CP-PX)	(Max. 5 sets)	(Max. 5 sets)	(Max. 5 sets)
3-phase capacity (Requires optional CP-3PX)	☐	☐	☐
Battery voltage sensor	☐	☐	☐
Battery Temperature sensor (BTS-3 Optional)	☐	☐	☐
Remote control port	☐	☐	☐
Extension Port (Port C)	☐	☐	☐
INVERTER			
Input Voltage Range (VDC)	12V-(9.5-16V) / 24V-(19-32V) / 48V-(38-64V)		
Output Voltage (VAC)	210~245 VAC / 94~128 VAC		
Output Frequency	50Hz /60Hz ± 0.1%		
Output Waveform	True Pure Sinewave		
Output Voltage THD	< 5%		
Power Factor (All Loads)	☐		
No linger load, crest factor	3: 1		
Cont. Power Output @ 70°C (W) Under 70°C (cosθ=1.0)	2000Va (No derate 70°C)	4000Va (No derate 70°C)	8000Va (No derate 70°C)
Cont. Power Output (W) Over 70°C (cosθ=1.0)	0W (Shutdown)	0W (Shutdown)	0W (Shutdown)
Maximum Power (W)	4000VA	8000VA	16000VA
Maximum Efficiency (%)	82/84/85	84/86/89	86/89/92
Zero-load Power (W)	(8W Power Save) 12W (Normal)	(12W Power Save) 18W (Normal)	(18W Power Save) 24W (Normal)
CHARGER			
Input Voltage Range (VAC)	180~265 VAC / 94~138 VAC		
Input Frequency	45-55Hz /55-65 Hz		
Power Factor	1		
Charge Characteristic	4-stage adaptive / Bulk-Absorption-Float-Equalize + Safe		
Maximum DC Voltage Ripple (Vrms)	< 1.25 V		
Charge Current House Battery (A)	70A/40A/20A	140A/70A/40A	140A/80A
Charge Current Starter Battery (A)	4A		
Output Charging Voltage (VDC)	12~16V / 24~32V / 48~64V		

Absorption Voltage Default (VDC)	14.4V / 28.8V / 57.6V	
Float voltage Default (VDC)	13.8V / 27.6V / 55.2V	
Equalize Voltage default (VDC)	13.2V / 26.4V / 52.8V	
Output Charge Voltage (min ~ max)	8V~16V / 11V~32V / 22V~64V	
Battery Temperature sensor	BTS-3 (optional)	
AC INPUT SWITCH		
AC IN Internal Terminal Circuit Breaker	2000VA: 30A -(110V) 15A -(230V) 4000VA: 60A -(110V) 30A -(230V)	
AC IN Auto Transfer Switch Current	2000VA: 32A- (110V) 16A -(230V) 4000VA: 63A -(110V) 32A -(230V)	
Switch-over Time		
a. inverter to AC input		0 msec.
b. AC input to inverter		0 msec.
Detection Time AC Input Fault	4 ~10 msec.	
Trip Level AC Low Input to Inverter	Default Setting: 94 VAC (94~120V) 110v Model 180 VAC (180~230V) 230v Model	
Trip Level Inverter to AC Low Input	Default Setting: 101 VAC (95~121V) 110v Model 187VAC (181~231V) 230v Model	
Trip Level Inverter to AC High Input	Default Setting: 138 VAC (119~142V) 110v Model 265 VAC (229~269V) 230v Model	
Trip Level AC High Input to Inverter	Default Setting: 143 VAC (120~143V) 110v Model 270 VAC (230~270V) 230v Model	
Min.~ Max. Frequency Range	45-55 Hz / 55-65 Hz	
MECHANICAL		

Cabinet / Protecting Class	Aluminum / IP20		
Dimension (HXWXD)	362 x 258 x 370 mm	424 x 258 x 370 mm	462 x 258 x 370 mm
Weight (kgs)	21 kgs	27 kgs	48kgs

(1) X should be 1, output voltage = 94~128 VAC or 2, output voltage = 210~245 VAC
Specifications subject to change

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