

SOLAR SMART PWM PCU Technical Specification

Model	925	1250	1400	1800	3100	3725
Battery Voltage	12V			24V		
Voc Range	17V-27V			34V -54V		
Input Voltage (Wide Mode)	90V-290V ± 10V			120V-280V±10V		
Input Voltage (Narrow Mode)	170V-270V± 10V			180V-260V±10V		
Output Voltage on Mains Mode	Same as input					
Output voltage on Backup Mode	210V + 10%, -15%					
Output frequency on Backup Mode	50Hz ± 0.1Hz					
Switching from mains to Backup and from Backup to Mains	Automatic					
Output Waveform on Mains mode	Same as input					
Output Waveform on Backup mode	Sine Wave					
Battery Charging Current	Constant charging approx 10% of the rated battery current in AH					
Charger	CCCV					
PCU overload/PCU Short Circuit	110%/300%					
PCU Transfer Time	<=15msec					
Technology	DSPIC BASED DESIGN					
Auto Reset Feature	Yes					
Operating Temperature	0°C- 45°C					
MAX PV Power	450W(150*3) 495W(165*3)	900W(150*6) 825W(165*5)	1050W(150*7) 990W(165*6)	1350W(150*9) 1320W(165*8)	2010W(335*6) 2000W(400*5) 2160W(540*4)	2345W(335*7) 2400W(400*6) 2160W(540*5)
Solar Current MAX.	30A	55A	60A	75A	55A	
Type of Charge	PWM WITH ISOLATED GATE DRIVE					

SOLAR SMARTMAX MPPT PCU Technical Specification

Model	900	1400	2600	3100	3600	4100	6100	6600	11100
Battery Voltage	12V		24V			48V		96V	120V
Voc Range	15V-52V		30V-105V		30V-100V	80V - 165V	80V - 165V	200-500V	
Input Voltage (WIDE MODE)	90V-290V ± 10V			120V-280V ± 10V					
Input Range (NARROW MODE)	170V-270V ± 10V			180V-260V± 10V					
Output Voltage on Mains Mode	Same as input								
Output Voltage on Backup Mode	220V+10%, -15%								
Output Frequency in Backup Mode	50Hz ± 0.1Hz								
Switching from mains to Backup and from Backup to Mains	Automatic								
Output Waveform on Mains Mode	Same as input								
Output Waveform on Backup Mode	Pure Sine Wave								
Battery Charging Current	Constant Charging approx 10% of the rated battery current in Ah								
Charger	CCCV								
PCU Overload/PCU Short Circuit	110%/150%								
PCU Transfer Time	<=15msec								
Technology	DSPIC BASED DESIGN								
Auto Reset Feature	Yes								
Operating Temperature	0°C to +45°C								
Max PV Power	500W	1000W	1500W	2000W	2500W	3000W	5000W	5.5KW	10KW
Solar Current Max.	32AMP ± 3A	60AMP ± 3A	50AMP ± 3A	68AMP ± 3A	72A	35AMP	62.5AMP	30AMP	55AMP
Type of Charge	MPPT with Isolated Gate Drive								



36
MONTHS PRODUCT WARRANTY*

120
MONTHS TRANSFORMER WARRANTY*

Solar Rooftop Solutions

MADE IN INDIA



1800 419 8610

EASTMAN AUTO & POWER LTD.

Corporate Office: 572, Udyog Vihar Phase 5, Gurugram-122016, Haryana, India | +91 124-4682650
support@eaplworld.com | Trade Enquiry : 78728 78728

Manufacturing Unit : Mouja Bated, Pragna Doon, Baddi, Distt. Solar, Himachal Pradesh-174103
www.eaplworld.com

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SOLAR PRO PWM PCU Technical Specification

Model	850VA	1000VA	1400VA	2000VA
Input (DC)				
BATTERY VOLTAGE	12VDC			24VDC
MAX. BATTERY DISCHARGING CURRENT	78A ± 5A	90A ± 5A	120A ± 5A	90A ± 5A
MAX. BATTERY CHARGING CURRENT	18A ± 3A	20A ± 3A		
SOLAR OPERATING RANGE	(17V - 27V) ±3V	(17V - 27V) ±3V	(17V - 27V) ±3V	(34V - 54V) ±3V
MAX. SOLAR CURRENT	55AMP ± 5A	60AMP ± 5A	75AMP ± 5A	55AMP ± 5A
MAX. SOLAR POWER	900W(150*6), 825W(165*5)	1050W(150*7), 990W(165*6)	1350W(150*9), 1320W(165*8)	2010W(335*6), 2000W(400*5), 2160W(540*4)
EFFICIENCY	>97%			
TYPE OF CHARGER	PWM WITH ISOLATED GATE DRIVE			
OUTPUT AC				
NO LOAD OUTPUT VOLTAGE	220V - 235V			
O/P FREQUENCY (NO LOAD & FULL LOAD)	50Hz ± 0.5Hz			
POWER RATING	850W	1000W	1400W	2000W
POWER FACTOR	UNITY			
AC INPUT				
NOMINAL MAINS VOLTAGE	230Vac			
NOMINAL FREQUENCY	50Hz			
MAINS RANGE IN WIDE MODE	(90-290V) ± 10V			
MAINS RANGE IN NARROW MODE	(170-270V) ± 10V			
PROTECTIONS				
MAX TEMP.	90°C ± 10°C			
OUTPUT SHORT CKT	ELECTRONIC CURRENT LIMITING			
INPUT SHORT CKT	CIRCUIT BREAKER			
BATTERY SHORT CKT.	FUSE			



SOLAR PROMAX MPPT PCU Technical Specification

Model	500VA-12V	1000VA-12V	1500VA-24V	2000VA-24V
Input Voltage (WIDE MODE)	90V-290V ± 10V			
Input Range (NARROW MODE)	170V-270V ± 10V			
Output Voltage on Mains Mode	Same as input			
Output Voltage on Backup Mode	220V+10%, -15%			
Output Frequency in Backup Mode	50Hz ± 0.1Hz			
Switching from mains to Backup and from Backup to Mains	Automatic			
Output Waveform on Mains Mode	Same as input			
Output Waveform on Backup Mode	Pure Sine Wave			
Battery Charging Current	Constant Charging approx 10% of the rated battery current in Ah			
Charger	CCCV			
PCU Overload/PCU Short Circuit	110% / 150%			
PCU Transfer Time	<=15msec			
Technology	DSPIC BASED DESIGN			
Auto Reset Feature	Yes			
Operating Temperature	0°C to +45°C			
Voc Range	15V-52V		30V-105V	
Max PV Power	500W	1000W	1500W	2000W
Solar Current Max.	32AMP ± 3A	60AMP ± 3A	50AMP ± 3A	68AMP ± 3A
Type of Charge	MPPT with Isolated Gate Drive			

Model	2500VA-24V	3000VA-48V	5000VA-48V	5.5kVA-96V	10kVA-120V
Input Voltage (Wide Mode)	120V-280V ± 10V				
Input Voltage (Narrow Mode)	180V-260V± 10V				
Output Voltage on Mains Mode	Same as input				
Output voltage on Backup Mode	220V + 10%, -15%				
Output frequency on Backup Mode	50Hz ± 0.1Hz				
Switching from mains to Backup and from Backup to Mains	Automatic				
Output Waveform on Mains mode	Same as input				
Output Waveform on Backup mode	Pure Sine Wave				
Battery Charging Current	Constant charging approx 10% of the rated battery current in Ah				
Charger	CCCV				
PCU overload/PCU Short Circuit	110%/150%				
PCU Transfer Time	<=15msec				
Technology	DSPIC BASED DESIGN				
Auto Reset Feature	Yes				
Operating Temperature	0°C to +45°C				
Voc RANGE	30V-100V	80V - 165V	80V - 165V	200-500V	
MAX PV Power	2500W	3000W	5000W	5.5KW	10KW
Solar Current MAX.	72A	35AMP	62.5AMP	30AMP	55AMP
Type of Charge	MPPT WITH ISOLATED GATE DRIVE				

