

SOLAR PCU – 48V

Technical Specification				
Model		1000VA	2000VA	3000VA
Inverter Output	Wave Form	Sine Wave		
	Technology	Microcontroller dSPIC (PWM) Based with Bridge Type		
	Out Put Voltage (AC)	230VAC \pm 1%		
	Output Frequency	50Hz \pm 1%		
	Output Power	800W	1600W	2400W
	Power Factor	0.8		
	Efficiency (%)	>85%		
	Distortion (THD)	< % 5 on Resistive Load		
	Forced Ventilation	Through Cooling FAN		
	Nominal Input Voltage (VDC)	48VDC		
	Battery Low Voltage Warranting	40.00V		
	Battery Low Voltage CUTOFF	36.00V		
	Load Reconnections (I/P VDC)	54.00V		
	Battery Reverse Polarity	Through DC MCB		
	Over Load Protection	120%, <30 Seconds		
Output short circuit	Retry for 5 times & permanently Output OFF			
Over Heat Protection	>85°C Output OFF			
Grid Charging & By Pass Mode	Grid Charging Current	10A (Optional)		
	Solar or Grid Charge End Voltage	Solar or Grid Charging Stops when battery reaches 54.00V DC and transfer to BACKUP (SOLAR MODE)		
	Grid Re-connect	Grid Power Re- Connected to load when battery Voltage is < 44.00V DC		
	Grid to UPS & INV Mode Transfer Time	Grid to BACKUP in UPS MODE 10mSec BACKUP to Grid in UPS MODE 15mSec Grid to BACKUP in INV MODE 40mSec BACKUP to Grid in INV MODE 15mSec		
Grid Input (AC) Window (UPS Mode)	Grid Input Low Cut	<190VAC		
	Grid Input Low CUT Recovery	>200VAC		
	Grid Input High CUT	>270VAC		
	Grid Input High CUT Recovery	<260VAC		
Grid Input (AC) Window (INVMODE)	Grid Input Low CUT	<160VAC		
	Grid Input Low CUR Recovery	>170VAC		
	Grid Input High CUT	>270VAC		
	Grid Input High CUT Recovery	<260VAC		
Solar Charger Controller	Type	Series Regulator Common Positive		
	Maximum Input PV Voltage (Voc)	88V DC		
	Solar Array	Multiple		
	Maximum Charging Current	30A	40A	60A
	Bulk Voltage	57.60VDC Per Battery		
	Float Voltage	55.20VDC Per Battery		
Protection	Battery Over Charge Cutoff/PV Reverse/Battery Reverse			
Display	Solar Charger/Battery Voltage/mains VAC/ Output VAC/ Wattage of load/Low Battery/ Low Battery CUT/ Over Load/Short Circuit			
Overall	Temperature	0–50°C		
	Humidity	0–95% Non Condensing		
	Dimensions (LxWxH)mm	330x400x155	330x400x155	330x400x155
	Weight	15kgs	25kgs	30kgs

*** Due to Continuous Development Specifications is Subject to Change without Notice.