

## SOLAR PCU – 24V

Technical Specification		800VA	1000VA
Model		800VA	1000VA
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	640 Watt	800 Watt
	Power Factor	0.8	
	Efficiency (%)	>85%	
	Distortion (THD)	< % 5 on Resistive Load	
	Forced Ventilation	Through Cooling FAN	
	Nominal Input Voltage (VDC)	24VDC	
	Battery Low Voltage Warranting	20.00V	
	Battery Low Voltage CUTOFF	18.00V	
	Load Reconnections (I/P VDC)	27.00V	
	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 27.00V DC and transfer to BACKUP (SOLAR MODE)	
	Grid Re-connect	Grid Power Re- Connected to load when battery Voltage is < 22.00V 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 (INV MODE)	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)	44V DC	
	Solar Array	Multiple	
	Maximum Charging Current	30A	40A
	Bulk Voltage	28.80VDC Per Battery	
	Float Voltage	27.60VDC 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	265x260x125	265x260x125
	Weight	8.5kgs	10.5kgs

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