

**MOST ADVANCED TECHNOLOGY
MPPT BASED PCU
(1100VA-15KVA)**

**FORGET THE FEAR OF
DARKNESS WITH
SUPERB**



**INDEPENDENT CHARGER FOR THE
RECOVERY OF DEEP DISCHARGED BATTERY**



**MPPT BASED ADVANCE
TECHNOLOGY PCU**



**30% MORE
EFFICIENT**



**SMART CHARGING
EVEN DURING LOW
VOLTAGE 90V***

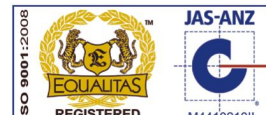


**GRID CHARGING ENABLE
/DISABLE OPTION FOR
REDUCED ELECTRICITY
BILL**

IS 16242
(Part 1): 2014



R-91004766



PRODUCT SPECIFICATIONS							
MODEL NAME	1100VA/12V	2500VA/24V	4000VA/48V	5.2 KVA/48V	7.5 KVA/96V	10 KVA/120V	15 KVA/240V
Mains Input mode							
Mains Input AC Range UPS mode	175VAC - 265VAC ± 10VAC						
Mains Input AC Range WUPS mode	90VAC - 295VAC ± 10VAC						
Input Frequency Range	48Hz to 52Hz						
Battery							
Boost charging voltage for LA Battery	14V±0.2V	28V±0.2V	56V±0.2V		112V±0.4V	140V±0.4V	280V±0.4V
Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V	29V±0.2V	58V±0.2V		116V±0.4V	145V±0.4V	290V±0.4V
Charging Current By Grid	15A±3A						5A - 15A±3A
Grid Charging Enable/Disable option	Yes						
Backup Mode							
Output voltage	220VAC +5% -10% (until battery low alarm)						
Output frequency	50Hz ± 0.2 Hz						
Low Battery Cut	10.6V±0.2V	20.8V±0.2V	42.4V±0.4V		83.2V±0.4V	104V±0.4V	210V±0.4V
Protections							
Overload in backup mode	Available						
Short Circuit in Backup Mode	Available						
Short Circuit in Mains Mode	Available						
Reverse Battery	Available						
Solar Charge Controller							
Solar Charge Controller type	MPPT						
Maxi Panel wattage can be connected	500 WATT	1800 WATT	3000 WATT		6500 WATT	8000 WATT	15000 WATT
Maximum PV Voltage	50V	85V	135V		250V	350V	600V
Maximum Battery current	30 Amp.	50 Amp.					60 Amp.
Efficiency	> 93%						
Reverse PV protection /current flow to PV	Available						
Sharing of current when PV and Grid Both are available	If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.						
DOD definition(Depth of Discharge)	Mains will be connect when battery voltage reach at defined value of the battery voltage.						
DOD (Depth of Discharge)	20%- if batt. volt. is 12.5V	20%- if batt. volt. is 25.0V	20%- if batt. volt. is 50.0V		20%- if batt. volt. is 100V±0.2V	20%- if batt. volt. is 125V±0.2V	Grid Reconnect Can set 214V To 250V (10.7V To 12.5 per battery)
	30%- if batt. volt. is 12.0V	30%- if batt. volt. is 24.0V	30%- if batt. volt. is 48.0V		30%- if batt. volt. is 96V±0.2V	30%- if batt. volt. is 120V±0.2V	
	40%- if batt. volt. is 11.5V	40%- if batt. volt. is 23.0V	40%- if batt. volt. is 46.0V		40%- if batt. volt. is 92V±0.2V	40%- if batt. volt. is 115V±0.2V	
	50%- if batt. volt. is 11.0V	50%- if batt. volt. is 22.0V	50%- if batt. volt. is 44.0V		50%- if batt. volt. is 88V±0.2V	50%- if batt. volt. is 110V±0.2V	
Display and Alarms							
LCD Fault / Protection Status Display	Mains Fuse Blown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Back feed						
Buzzer	Mains Fuse Blown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Back feed						


HOME UPS
SOLAR PCU
TUBULAR BATTERY
SMF BATTERY
**MPPT SOLAR
POWER CONDITIONING UNIT**
**SOLAR
CHARGE CONTROLLER**
**SOLAR
KITS & ACCESSORIES**

SMARTEN POWER SYSTEMS PVT. LTD.

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