

**BOOM**

**SOLAR PCU  
WITH LED**

**500VA - 2000VA**



**SMART SOLAR  
OPTIMIZATION  
USER SETTING**



**EXTREMELY  
ECONOMICAL**



**SOLAR PANEL  
CAPACITY UPTO  
300W TO 2000W**

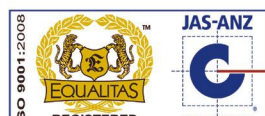


**USER FRIENDLY  
LED DISPLAY**

IS 16242  
(Part 1): 2014



R-91004766





## PRODUCT SPECIFICATIONS

MODEL NAME	500VA/12V	700VA/12V	900VA/12V	1100VA/12V	2000VA/24V
MAINS MODE					
Mains AC Input range (UPS mode)	175VAC-265VAC ± 10VAC				
Mains AC low cut recovery UPS mode	185VAC ± 10VAC				
Mains AC high cut recovery UPS mode	255VAC ± 10VAC				
Mains AC Input range (WUPS mode)	90VAC-295VAC ± 10VAC				
Mains AC low cut recovery WUPS mode	110VAC ± 10VAC				
Mains AC high cut recovery WUPS mode	285VAC ± 10VAC				
Input Frequency Range	48Hz to 52Hz				
Battery					
DC input voltage	12V				24V
Float Charging Voltage	13.7V ± 0.2V				27.4V ± 0.2V
Bulk absorption Voltage	14.8V ± 0.2V				29.6V ± 0.2V
Boost charging Voltage for LA Battery	14.0V ± 0.2V				28.0 ± 0.2V
Boost charging Voltage for TUB/SMF	14.5V ± 0.2V				29.0 ± 0.2V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)				
Charging Current at Grid/Battery Priority	10A ± 2A	15A ± 2A			
Backup Mode					
Output voltage	220 VAC ± 10%				
Output Frequency	50Hz ± 0.2 Hz				
Output waveform	Pure Sine Wave ≤ 5%THD				
Low Battery Warning	10.8 + 0.2V				21.6V ± 0.2V
Low Battery Cut	10.4 + 0.2V				20.8V ± 0.2V
Change over time UPS /WUPS mode	< 10msec / < 25msec				
Protections					
Overload in Backup mode	Yes provided, system will indicate on display at 101% load				
Short Circuit in Backup mode	System will shutdown after 3 - retries in case of output short circuit				
Short Circuit in Mains mode	Mains Fuse will blown				Mains MCB will trip
Back Feed	System will shutdown in case of back feed and there is no retry				
Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down				
Reverse Battery	DC fuse will blown				
Phase to Phase protection in mains mode	Yes provided by electronic				
Solar Charge Controller					
Solar Charge Controller type	PWM type				
Maxi Panel wattage can be connected	600W				1800W
Maxi PV current	25A				60A
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.				
Option for Grid and Battery priority	Yes, provided user can set priority for Battery or Grid Hence user set system in electricity bill saving				
Display and Alarms					
Display	LED Display				
Weight and Dimensions					
Dimensions in mm	270x190x125				340x230x260


**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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