

SAVE BIG WITH SAVER

SAVER SOLAR PCU

PURE SINE WAVE PCU (300VA-10KVA)



**INDEPENDENT CHARGER FOR
DEEP DISCHARGE BATTERY RECOVERY**



User friendly
LCD Display



Smart Solar
Optimization
Usage Settings



User friendly
interface



In built 50 Amp
strong Solar
charge controller.

IS 16242
(Part 1): 2014



R-95000477



PRODUCT SPECIFICATIONS

MODEL NAME	300VA	500VA	700VA	900VA	1100VA	1700VA	2000VA	2500VA	2500VA	3500VA	5000VA	5000VA	6000VA	7500VA	10000VA
Mains Input mode															
Mains Input AC Range UPS mode	175VAC $\pm$ 10VAC to 265VAC $\pm$ 10VAC														
Mains AC low cut recovery Range UPS mode	185VAC $\pm$ 10VAC to 255VAC $\pm$ 10VAC														
Mains Input AC Range WUPS mode	90VAC $\pm$ 10VAC to 295VAC $\pm$ 10VAC														
Mains AC low cut recovery Range WUPS mode	110VAC $\pm$ 10VAC to 285VAC $\pm$ 10VAC														
Input Frequency Range	40Hz to 60Hz														
Voltage Output in Mains Mode	Same as input														
Frequency Output in Mains Mode	Same as input														
Battery															
Battery Type	LA / Tubular / SMF														
Battery Quantity 12V 100Ah to 220Ah	01			02			03		04		08	06	08	10	
Float charging voltage	13.7V $\pm$ 0.2V			27.4V $\pm$ 0.2V			41.1V $\pm$ 0.4V		54.8V $\pm$ 0.4V		109.6V $\pm$ 0.4V	82.2V $\pm$ 0.4V	109.6V $\pm$ 0.4V	137V $\pm$ 0.4V	
Boost charging voltage for LA Battery	14.8V $\pm$ 0.2V			29.6V $\pm$ 0.2V			44.4V $\pm$ 0.4V		59.2V $\pm$ 0.4V		118V $\pm$ 0.4V	88.8V $\pm$ 0.4V	118V $\pm$ 0.4V	148V $\pm$ 0.4V	
Boost charging voltage for Tubular/SMF Battery	14.0V $\pm$ 0.2V			28.0V $\pm$ 0.2V			42V $\pm$ 0.4V		56.0V $\pm$ 0.4V		112V $\pm$ 0.4V	84.0V $\pm$ 0.4V	112V $\pm$ 0.4V	140V $\pm$ 0.4V	
Bulk Absorption Battery Voltage	14.5V $\pm$ 0.2V			29.0 $\pm$ 0.2V			43.5V $\pm$ 0.4V		58.0V $\pm$ 0.4V		116V $\pm$ 0.4V	87.0V $\pm$ 0.4V	116V $\pm$ 0.4V	145V $\pm$ 0.4V	
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)														
Charging Current By Grid	10A $\pm$ 2A		15A $\pm$ 3A												
Backup Mode															
Output voltage	220VAC + 5% -10% (until battery low alarm)														
Output frequency	50Hz $\pm$ 0.2 Hz														
Output waveform	Pure Sine Wave $\leq$ 5% THD														
Capacity	300VA	500VA	700VA	900VA	1100VA	1700VA	2000VA	2500VA	2500VA	3500VA	5000VA	5000VA	6000VA	7500VA	10000VA
Discharging current @ full load	20A $\pm$ 2A	35A $\pm$ 2A	42A $\pm$ 2A	55A $\pm$ 2A	60A $\pm$ 2A	58A $\pm$ 2A	68A $\pm$ 2A	72A $\pm$ 2A	60A $\pm$ 2A		74A $\pm$ 2A	46A $\pm$ 2A	66A $\pm$ 2A		
Low Battery Warning	10.8 $\pm$ 0.2V			21.6 $\pm$ 0.2V			32.4 $\pm$ 0.4V		43.2 $\pm$ 0.4V		86.4 $\pm$ 0.4V	64.8A $\pm$ 2V	86.4V $\pm$ 0.4V	108V $\pm$ 0.4V	
Low Battery Cut	10.4 $\pm$ 0.2V			20.8 $\pm$ 0.2V			31.8 $\pm$ 0.4V		42.4 $\pm$ 0.4V		84.8 $\pm$ 0.4V	63.8 $\pm$ 0.4V	84.8 $\pm$ 0.4V	108V $\pm$ 0.4V	
Change over time UPS mode	< 10msec										< 4msec				
Change over time WUPS mode	< 25msec														
Protections															
Overload in backup mode	Yes provided, system will show overload indication at 101% load on display														
Short Circuit in Backup Mode	System will shut down after 3 - retries in case of output short circuit														
Short Circuit in Mains Mode	Mains Fuse will blown					Mains MCB 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 burn										Battery MCB will trip				
Solar Charge Controller															
Solar Charge Controller type	PWM Type														
Maxi Panel wattage can be connected	600W			1500W			3000W		6500W	4500W	6500W	8000W			
Maximum Battery current	25A		35A			50A									
Reverse PV protection	Yes provided, it will also display on LCD panel														
Reverse current flow to PV	Yes provided, it will also display on LCD panel														
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 can set system in electricity bill saving.														
Display and Alarms															
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS OFF, Battery Voltage, Load %, Output Voltage, Output Frequency, Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut														
Buzzer	Audible beep for Overload, Short Circuit, Back feed, Low Battery, Over Temperature, Mains Fuse blown / MCB Trip														
Weight and Dimensions															
Dimensions in mm	301x297x160		270x190x125			340x230x260		350x230x310		530x360x585			550x410x650		
Weight	6.5Kg	7Kg	8.5kg	9.35kg	9.5kg	15.9kg	18.3kg	21.4kg	26.3kg	43kg		51kg	73kg	78kg	

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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