



**IT'S TIME FOR NEXT
GENERATION TECHNOLOGY**

PRODUCT CATALOGUE



 /smartenpowersystems



**PRESENCE OVER
25+ STATES**



Dear Prospective Channel Partner,

Thank you for your interest in Smarten Power Systems Pvt. Ltd. Products. Smarten has been a Solar Solution company since 2014, it specializes in designing and manufacturing high-quality Solar Products. As an authorized dealer, we will consider you to be a valuable part of our long-term success.

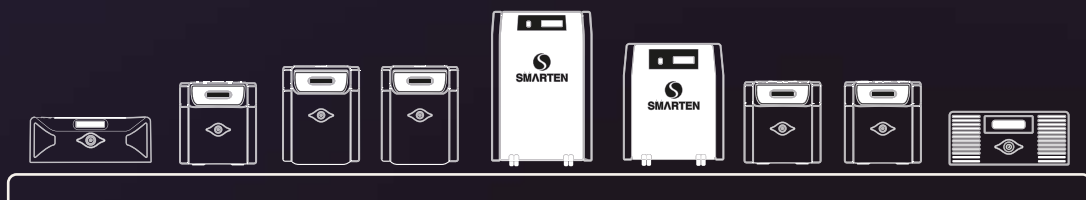
And you will be able to purchase our products at your convenience from our distributors. One of the benefits will be the ability to speak with a qualified representative who would have a thorough knowledge about the complexities of Solar Products. In order to maintain the long-term value of the brand and to promote the product in the best way possible, it is in the best interest of both Smarten and its authorized Distributor.

While there is no initial minimum order, dealer discounts are extended with the understanding that the relationship must be viable and mutually profitable. Therefore, dealer status may be reviewed from time to time, and inactive accounts may be discontinued.

Thank you again for showing interest in becoming an authorized Smarten dealer. If you have any questions, please do not hesitate to contact us.

Sincerely,

RAJNISH SHARMA
(CEO)
Smarten Power Systems Pvt. Ltd.




Shine
 Solar Power Conditioning Unit

SOLAR PCU | 2000

First time in India Smarten Launched SHINE Solar Power Conditioning Unit Series. Shine is a revolutionary product with smart keypad for our power solutions. Shine is based on the latest & advanced PWM Charge Controller based technology. Its user friendly interface makes it ideal for Home appliances. In Shine, we have used advanced key pad solution for customer, its help the user to set PCU with customized settings as per the requirement. And also the customer can select the battery discharge level and solar utilization % which will use the maximum solar power, other setting like grid charging enable-disable, selection battery charging voltage etc.


Runs High Intensity Appliances

Recover Deep Discharge Battery Even Zero Volt Gravity

Smart Charging Even During Low Voltage 90V*

Grid Charging Enable/Disable option for reduced electricity Bill

RUN 1 HP SUBMERSIBLE EASILY


SUBMERSIBLE PUMP



DENTAL CHAIR



PHOTOCOPIER



WASHING MACHINE



PC



LED TV



AIR COOLER



REFRIGERATOR

LOAD CHART*

Load on Solar		Solar Panel Capacity
A	12 Fan + 15 LED+ 1 TV or Submersible Pump 1 HP + 2 Fan + 2 LED or 3 Fan+ 6 LED+ 1 TV	Upto 1800 W
B	10 Fan + 10 LED+ 1 TV or Refrigerator + 2 Fan + 2 LED or 3 Fan+ 6 LED+ 1 TV+ 1 Washing Machine	

*Conditions apply

PRODUCT SPECIFICATIONS

MODEL NAME	1250VA/12V	2000VA/24V	2500VA/24V	4000VA/48V	5.2 KVA/48V	7.5 KVA/96V	10 KVA/120V
Mains AC low/high cut UPS mode	175VAC - 265 VAC ± 10VAC						
Mains AC low/high cut recovery UPS mode	185VAC - 255 VAC ± 10VAC						
Mains AC low/high cut WUPS mode	90VAC - 295VAC ± 10VAC						
Mains AC low/high cut recovery WUPS mode	110VAC - 285VAC ± 10VAC						
Input Frequency Range	40Hz to 60Hz						
Voltage Output in Mains Mode	Same as input						
Frequency Output in Mains Mode	Same as input						
Grid Charging Enable/Disable	Yes Provided, you can set by front switch						
BATTERY							
Battery Type	LA / Tubular / SMF						
DC input voltage	12V	24V		48V		96V	120V
Battery Qty. 12V 100Ah to 220Ah	1	2		4		8	10
Float charging voltage	13.7V _± 0.2V	27.0V _± 0.2V		54.8V _± 0.4V		109.6V _± 0.4V	137V _± 0.4V
Bulk Absorption Voltage	14.8V _± 0.2V	29.6V _± 0.2V		59.2V _± 0.4V		118V _± 0.4V	148V _± 0.4V
Boost charging volt. for LA Battery	14.0V _± 0.2V	28.0V _± 0.2V		56.0V _± 0.4V		112V _± 0.4V	140V _± 0.4V
Boost charging volt. for Tub/SMF Battery	14.5V _± 0.2V	29.0V _± 0.2V		58.0V _± 0.4V		116V _± 0.4V	145V _± 0.4V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)						
BACKUP MODE							
Output Voltage	220VAC +5% -10% (until battery low alarm)						
Output frequency	50Hz ± 0.2 Hz						
Capacity	1100VA	2000VA	2500VA	3500VA	5000VA	7500VA	10000VA
Discharging current @ full load	60A _± 2A		70A _± 2A	60A _± 2A	70A _± 2A	66A _± 2A	
Low Battery Warning	10.8 _± 0.2V	21.6V _± 0.2V		43.2V _± 0.4V	43.2V _± 0.4V	86.4V _± 0.4V	108V _± 0.4V
Low Battery Cut	10.4 _± 0.2V	20.8V _± 0.2V		41.6V _± 0.4V	42.4V _± 0.4V	84.8V _± 0.4V	104V _± 0.4V
Change over time UPS mode	< 10msec					< 4msec	
Change over time WUPS mode	< 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 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	Battery MCB will trip						
Phase to Phase protection in mains mode	Yes provided by electronic						
SOLAR CHARGE CONTROLLER							
Solar Charge Controller type	PWM Type						
Max Panel wattage can be connected	500W	1500W		3000W		6500W	8000W
Max PV current	25A	50A					
Reverse PV protection		Yes provided, it will also display on LCD panel					
Solar, Battery and Grid	Yes, provided, user can set priority for Battery or Grid. Hence user can set system in electricity bill saving.	When Solar Power is 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 battery voltage is 12.5V _± 0.2V per battery						
	30%- if battery voltage is 12V _± 0.2V per battery						
	40%- if battery voltage is 11.5V _± 0.2V per battery						
	50%- if battery voltage is 11V _± 0.2V per battery						
Display and Alarms							
LCD Initial Display	Welcome, SMARTEN Website Address, System Capacity, Charging Till 90VAC and Deep Discharge Battery, System Setting, UPS / WUPS mode, I/P range 90-295VAC / 170-265VAC, Battery Type Selected LA / SMF / Tubular, Battery Capacity Selected 100-135Ah / 150-200Ah,						
Buzzer	Audible beep for Overload, Short Circuit, Back feed, Low Battery, Over Temperature, Mains Fuse blown / MCB Trip						



SMARTEN®
F U S I O N I S T H E F U T U R E



Smarten Power Systems Pvt. Ltd.

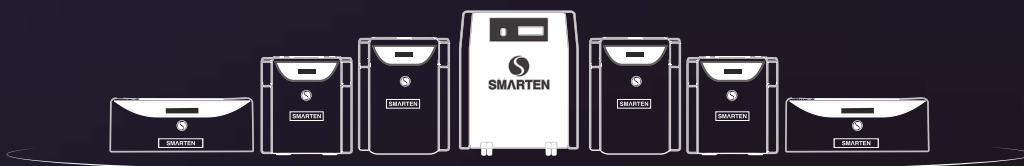
Plot No - 374, Pace City-II, Sector 37, Gurugram,
Haryana (India) 122001



9319 6997 55



info@smartenpowersystems.com



www.smartenpowersystems.com



/smartenpowersystems

