



SOLAR UPS

5KW - 200KW

With Predictive Analytics Software.



Sends an update of units generated every day by SMS.

SMS alert-well in advance prior to shutdown/tripping for any reason.





INDUSTRIAL GRADE DESIGN

DSP based technology MPPT charge controller

ASS UPS 101 - 5KVA - 15KVA 1Ø-1Ø ASS UPS 303 - 15KVA - 200KVA 3Ø-3Ø

Salient Features

- DSP based MPPT technology for optimum utilisation of solar power.
- Provided with DOD level setting.
- Option to select Mains/Battery/
 Solar as priority.
- RS-232 & GSM interface



IGBT based MPPT Solar Charge Controller



Zero transfer time using Active Shunt Single conversion topology.

The UPS actively floats with the mains. (A comination of technology used in Active Harmonic filters & Grid-export solar UPS)

ASS UPS 101 & 303 - The industrial grade PCU in 1/1 & 303

Mains synchronised, near zero transfer time, ensures seamless functioning of connected critical loads.

- ASS UPS 101 5KVA 15KVA 1Ø-1Ø For PCs, smartclass, servers, IT labs, lights, billing counters etc.
- ASS UPS 303 15KVA 200KVA 3Ø-3Ø For industrial automation & process machines, CNC, laser machines, motor loads etc.

Active shunt - National award winner

"Most innovative power solution of the year 2016" by SoftDisk



The advanced Predictive Analysis Technology uses 16 sensors at various Solar UPS points, monitoring component health, temperature, battery health, charge quality, speed of fan, internal reference voltages and drive signals; and initiates an alarm much before the tripping of Solar PCU, enabling graceful shutdown of UPS and other process.

Active Shunt Solar PCU/UPS

TECHNICAL SPECIFICATION

MODEL	ASS UPS 101	ASS UPS 303	
Technology	MPPT technology using DSP & IGBT.		
Toplogy	Hybrid, Off-Grid PCU with mains connected		
Rating	5KW-15KW	10KW-200KW	
DC BUS	48VDC-192VDC	120VDC-360VDC	
SOLAR INPUT			
Operating MPPT voltage	144VDC-180VDC	180VDC-325VDC	
Maximum panel current	20A-50A	50A-600A	
Reverse Polarity Protection	Short Circuit Diode		
Back feed protection	Protected using reverse diode		
MPPT efficiency	96% (peak)		
Charger type	Boost cum float charger		
Charging current on solar mode	0 - 55A	0 - 25A	
Utility / Grid input voltage	220VAC, Single phase & Neutral	400VAC, Three phase & Neutral	
Input voltage window	180VAC-250VAC	350VAC - 450VAC	
Input frequency	50HZ ± 6%		
Mains Charger type	PFC using IGBT rectifier		
OUTPUT			
On mains mode	180VAC-250VAC	350VAC - 450VAC	
On inverter mode	220VAC, 1Ø, 50HZ ± 0.1HZ	400VAC, 3Ø & N, 50HZ ± 0.1HZ.	
Load regulation	± 1% on balanced & unbalanced load		
Waveform	True sinewave		
Voltage THD	< 2% on linear load, <5% on non-linear load		
Overload capacity	100% continous, 125% for 1min, 150% for 5 secs		
Inverter type	IGBT based PWM, with instantaneous sinewave control		
Transfer time	N (0.2.)		
	Near zero (0-2ms) Remains within \pm 0.5% and recovers to 100% within one cycle		
Transient response	Remains within ± 0.5% and recovers to 100% within one cycle 3:1		
Crest factor	• Input Low/High • Over temperature • Battery low • Overload • Short circuit		
Protections		•	
Alarms	 Mains fail Battery low Over temperature On inverter mode - 85% - 94% 		
Efficiency on 100% load	On mains mode - 98%	On inverter mode - 85% - 94%	
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Multifunctional Solar LCD display	 Solar voltage Solar current Solar power Solar power generated delivered Input voltage Output voltage Battery voltage Load current 		
Testanifaca	RS232 interface; GSM based SMS interface, Updates power generated per day SMS.		
Interface	RS232 Interface; GSM based SMS interface, Updates power generated per day SMS. Predictive Analytics; SMS alerts well in advance prior to tripping due to any		
Salient Feature	kind of fault for initiating preventive action.		
kind of fault for initiating preventive action.			
Optional feature Mains priority/Battery priority/Solar priority setting & Battery DOD setting			
Enclosure protection	IP-20		
Acoustic Noise level	<60db @ 1.5meter		
Operating ambient temperature	0 - 40°C		
Mode of operation	SR303 - Designed for short backup, CR303 - Continous operation rated		
Testing standards	SR303 - Designed for short backup, CR303 - Continous operation rated		
resuring startage as	SNOUS - Designed for short backup, CR303 - Continious operation rated		

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Approved vendor for

Our esteemed customers have been using ACTIVE SHUNT SOLAR UPS various applications across the country from past 8yrs and have certified the performance of the same.

























PARTIAL LIST