

SOLAR UPS

Just Switch On And Simply Forget

Advance MICRO CONTROLLER based SOLAR UPS / INVERTER products have been carefully designed to operate in both industrial and commercial environments. In commercial applications, our ups / inverter products fit according to aesthetically into the environment and perform reliably for years.



SALIENT FEATURES

- Built-in MPPT / PWM Solar Charge Controller.
- Micro Controller / DSP Based smart controller design.
- Pure Sine Wave Output.
- Electronic Overload and Short Circuit Protection.
- Easily Serviceable.
- Auto Changeover / Reset Feature.
- Mains Input Voltage Range Selection.
- Multi Stage Charging.
- Audio Visual Indications (Status & Fault).



SOLAR UPS MODELS	SO312	SO612	SO812	SO1024	SO1524 SO1536 SO1548	SO2036 SO2048 SO2072	SO2548 SO2572	SO3048 SO3072 SO3096	SO3548 SO3572 SO3596	SO4072 SO4096	SO5036 SO5048 SO5096 SO5120 SO5144 SO5192	SO6144 SO6192	SO7.5144 SO7.5192	SO10096 SO10120 SO10192	SO15096 SO15120 SO15192	SO20096 SO20120 SO20192
INPUT																
Input Voltage Range	100V – 300V (Wide input voltage range) 180V – 260V (Normal input voltage range)															
Nominal Input Voltage(s) Supported	220V AC , 50Hz															
Input connection type	Hard Wire															
BATTERY Full Load Runtime (minutes)	Depends on Load & Battery AH															
No of Battery	1	1	1	2	2/3/4	3/4/6	4/6	4/6/8	4/6/8	6/8	3/4/8/ 10/12/ 16	12/16	12/16	8/10/16	8/10/16	8/10/16
SOLAR CHARGE CONTROLLER																
Type	MPPT/PWM															
Max.PV Open Circuit Array Volatge	22VDC	22VDC	22VDC	44VDC	44/66/88V DC	66/88/132V DC	88/132 VDC	88/132/176 VDC	88/132/176 VDC	132/176V DC	66/88/176 /220/264/ 352 VDC	264/352 VDC	264/352 VDC	176/220/352V DC	176/220/352 VDC	176/220/352V DC
Charge Algorithm	3-stage Bulk / Acceptance / Float Plus Equalize															
LCD Display	Backlit, Alphanumeric Display showing battery voltage, DC amperage, Cumulative KWH hours															
OUTPUT																
Output Volt Amp Capacity (VA)	300 (VA)	600 (VA)	800 (VA)	1000 (VA)	1500 (VA)	2000 (VA)	2500 (VA)	3000 (VA)	3500 (VA)	4000 (VA)	5000 (VA)	6000 (VA)	7500 (VA)	10000 (VA)	15000 (VA)	20000 (VA)
Output Watt Capacity (watts)	240W	480W	640W	800W	1200W	1600W	2000W	2400W	2800W	3200W	4000W	4800W	6000W	8000W	12000W	16000W
DC System Voltage (VDC)	12V	12V	12V	24V	24V / 36V / 48V	36V / 48V / 72V	48V / 72V	48V / 72V / 96V	48V / 72V / 96V	72V / 96V	36V/48V /96V/ 120V/ 144V/ 192V	144V / 192V	144V / 192V	96V / 120V / 192V	96V / 120V / 192V	96V / 120V / 192V
Load Capacity	>110% faulty after 300ms															
Phases	1Phase - 3 Wire (L.N.E)															
Output AC waveform	Pure Sine Wave															
Efficiency	> 88%															
GENERAL																
LCD / LEDs Indications	UPS ON (Yellow), Battery Low (Red), Mains ON (Green),Charging (Green), Overload(Red)															
Alarms	Audible alarm indicates power failure and overload conditions															
Switches	1)Switch control off / on power status 2)Switch for mains input voltage range 3)Switch to select the maximum charging voltage															
Protection	> 300% Load (with manual reset function)															
Cooling Method	Forced air cooled															
Transfer Time	Battery to line mode : 300 milliseconds / Line to battery mode : 300 milliseconds															
Housing Material	Powder coated / painted MS															
ENVIRONMENTAL																
Operating Temperature Range	0°C to 50°C															
Relative Humidity	95% (non-condensing)															
Degree of Protection	IP 20															
BATTERY																
No of Battery	1	1	1	2	2/3/4	3/4/6	4/6	4/6/8	4/6/8	6/8	3/4/8/ 10/12/ 16	12/16	12/16	8/10/16	8/10/16	8/10/16
Battery Charging Profile(Boost /Foat)	Suitable according to Battery type (eg : VRLA/SMF/Wet Lead Acid Battery)															
Max Charging Current(when battery is fully discharge)	10A ±2amp															
SPECIAL FEATURES																
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported															
Charge End Voltage	Grid charging stop when battery reaches 13.8V ±0.2V and transfer to backup mode (per battery)															
Grid Recharge Voltage	Grid charging starts when battery reaches 11V ±0.2V and transfer to grid (per battery)															
CERTIFICATIONS																
Quality Certifications	ISO 9001 : 2008															
WARRANTY																
Product Warranty Period	1-year limited warranty															

We are committed to continuous development of our products, the specifications are subject to change without notice.



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