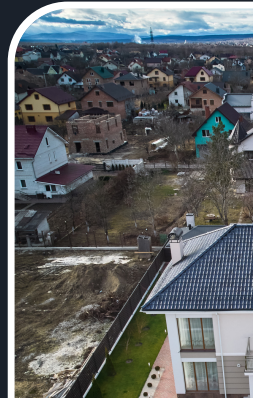
nishan
innovative energy solutions

SOLAR INVERTERS

for small applications



+91-9850144888
www.nishan.in
Nishan Power, 365, KVSM comp
Bhiwandi - 421302, M.S., India

Technical specification: Nishan Powermonk Sunny Solar pure sinewave UPS/PCU.*

Capacity*	**VA/Watt***		**1000 VA**	**1500 VA**	**2000 VA**	**3000 VA**	**3500 VA**
Battery VDC			12	12	24	36	48
Solar Charge Controller			Zero drop PWM charge controller (Dusk to Dawn optional)				
Nominal o/p voltage			230 VAC Pure Sinewave				
User selectable modes			UPS (for computer application) Optional / Wide Mode (normal application)				
Input	Voltage range	Range	180 ~ 260 VAC (UPS mode) / Wide Mode (normal use)				
		Frequency	40 to 53 Hz				
		Low Voltage Transfer	180 VAC +/- 5V (for UPS mode). 90 VAC+/- 5V (for wide mode)				
		Low Voltage Return	190 VAC +/- 5V (for UPS mode). 110 VAC+/- 5V (for wide mode)				
		High Voltage Transfer	260 VAC +/- 5V (for UPS mode). 290 VAC+/- 5V (for wide mode)				
		High Voltage Return	250 VAC +/- 5V (for UPS mode). 280 VAC+/- 5V (for wide mode)				
Output	Voltage Regulation Mains Mode		Follows Input				
	Voltage Regulation in Battery mode		220 VAC				
	Frequency Line Mode		Follows Mains				
	Frequency Line Mode		50 Hz +/- 0.1 Hz				
	Power Factor		0.8				
	Waveform		Pure Sinewave				
	Efficiency		Upto 92 % (dependent on load)				
	Over-load Protection	Line Mode	No use / fuse				
		Battery Mode	Dynamic short circuit protection. Shutdown after 5 sec. if overload is not removed.				
	Short-circuit Protection	Line Mode	No fuse/fused				
		Battery Mode	Dynamic short circuit protection. Shutdown after 5 sec. if overload is not removed.				
Solar Inverter Hybrid mode	With Mains Power and Solar Power available. (Solar Priority Mode)		Battery fully charged	Automatic changeover to inverter backup mode and runs on solar. If solar is not sufficient excess power is drawn from the battery till battery reaches 11 Vdc (settable)			
			Battery discharges below 11 VDC	The system returns to mains utility power and charges the battery. When again the battery is fully charged, repeat the above function.			
	When Mains Power Present and solar power absent		Returns to mains utility power and charges battery using mains utility power.				
DC Start	Cold start with load		YES				
Transfer time	Typical		less than 6 milliseconds on both ups and normal mode				
BATTERY	Backup time		Depends on batteries connected. Maximum battery 200 Ah				
	Charging current		Upto 15 amps mains utility power/On solar depends on solar panel wattages.				
LCD display	Battery voltage, Inverter output voltage, percentage of load, mains voltage, charger on/off, solar/mains charging, Inverter standby ON/OFF, UPS/Inverter Mode, Phase input/output reverse: whether mains is connected to inverter output, Neutral and Phase reverse: whether neutral and phase reverse connected, Overload: If load is above 100% and below 300%, Heavy: if load is above 300%, Short Circuit, Overload trip, Heavy load trip, Short circuit trip.						
Audible Alarm	Battery Low		Battery Low, Overload, temperature high, one beep when load transferred on inverter, beep at intervals before battery low cutoff.				
Protection	Battery low, Battery overcharge, Over Temperature, Short circuit, Phase Reverse.						
Parameters Resettable	Output voltage, Charging current, Battery boost voltage						
Physical	Dimensions (WxHxD)		290mm W x 240mm L x 135mm for 900 VA and 1700 VA models				
Environmental	Operating temperature		0 – 45 Degree C				
	Relative Humidity		0-95% non-condensing				
	Audible Noise		Less than 55 dB (at 1 M)				

Also available from 1000 VA to 100 KVA. Contact: Darshan : 9850144888