

# Power Guard Hybrid Solar System

## Go Green..... Use Solar Power

- Unlimited and clean power source from sun
- Lower cost than using generator
- No pollution, no noise
- MPPT Solar Controller
- Sine wave output, Hybrid inverter
- LCD Display parameters
- Robust microprocessor based design
- Solar priority for battery recharging



The standalone hybrid solar power station comes in various capacities and can either utilise solar energy or accept AC main power to continuously provide constant clean power for home & commercial use. This solar Power System can store solar energy into battery & provide electrical power backup when AC main power fails or as and when required.

The complete hybrid solar Power Station comprises of

- PV panels, Polycrystalline type
- Solar UPS
- Batteries, tubular type, suitable for solar application
- PV rack & battery rack.
- Inter connections cables.

The sizing of PV panels and battery depends on connected load and number of hours usage. Ideally a Solar Power Stations is designed for 5 hours but can be configured for 24x7 operations.

Model Solar UPS		PGE-400	PGE-1200	PGE-2400	PGE-3000	PGE-5000
Capacity		400W	1000W	2000W	3000W	5000W
DC Bus		24	48	48	192	192
PV	MPPT Voltage Range	24-45 VDC	48-90 VDC		192-400 VDC	
	Max. charge current	10A-40A selectable	10A-60A selectable		10A-80A selectable	
	Conversion efficiency		>= 98%			
Inverter O/p	O/p Voltage	230VAC ±5%				
	O/p Frequency	50 Hz ±1%				
	Wave form & distortion	Pure sine wave, <5% on linear load				
	Transfer Time		5 ms			0 ms
	Max. efficiency		> 84%			88%
	Overload		110% for 60 sec, 120% for 5 sec shutdown			
	Short circuit		system shutdown			
Display		LCD + LEDs				
Physical	O/p sockets	Terminal Block				
	IP class	IP20				
	Ambient temp	0 - 40°C				
	Dimension - DxWxH (mm)		380x195x478			540x265x725
	Weight (Kg.)	11	19	24		35

Specification subject to change without prior intimation  
R&D being continuous process

