

P-SecuRE



P-SecuRE

Not a power solution. But a smart energy manager.

For the first time in the industry: 3-year warranty!

P-Secure is the most comprehensive solution for Hybrid System Applications facilitating high uptime. It facilitates Smart Management and high visibility to equipment health and site operations for the offices across the world. P-Secure has been specifically designed for poor grid and off-grid applications. Capacities range from 5kW to 45 kW solutions.

Introduction

Flexibility and reliability leads to cost saving.

P-Secure includes a ready to use integrated High Voltage MPPT charge controller, which accepts particularly high PV voltages, allowing many PV modules to be connected in series. This decreases installation cost and avoids combiner boxes, allowing it to function as an AC to DC battery charger, which provides flexible energy access solutions in a range of applications.

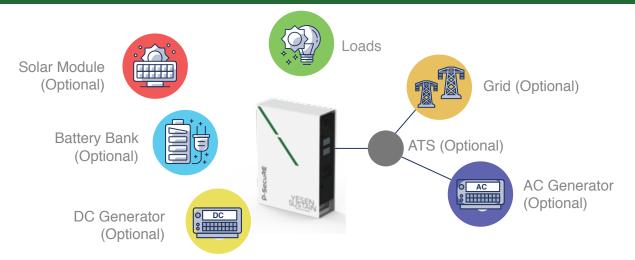
The battery can be charged from solar and/or an AC source with easy programming. P-Secure can function without an AC source or alternatively even without solar, as a pure un-interruptible power supply (UPS). When the utility grid or AC generator fails, the P-Secure immediately switches to 'Off-Grid' mode within 10 ms (typical, in UPS mode). Solar can be set as the priority energy source to save electricity costs. P-Secure can also function in a battery-free mode. In this mode, grid energy consumption can be reduced without the need to spend on a costly battery bank. Additionally, power can be supplied directly to loads from the grid and solar simultaneously.

Product Features

- Integrated AC battery charger compatible with Lithium batteries
- High level of connectivity: BLE, USB-OTG (on-the-go), CAN Bus/RS-485/RS-232, relays for generator start
- Data logger with up to 60 days of data storage
- Grid feed-in option is code-protected to avoid accidental feed-in
- Charge controller functions even if inverter is turned off to keep batteries fully charged
- Functions without an expensive battery to reduce energy consumption from the grid with minimal investment.
- Store or load parameters via USB for quick configuration
- Integrated buzzer for error indications



Functional Overview



Advantages

P-Secure gives you On-site Bluetooth Connectivity with the Telematics platform providing Data Analytics for predictive analysis and alerts.

Low and Poor Grid Compatibility

Meets the challenging requirements of remote sites with poor grid.

Over the Air firmware

Enables firmware upgrades without the need of physical access, saving time and money

Seamless Power transfer

Ensures seamless management and transfer of power between multiple sources.

Communications Control and Analytics

- GSM based communication with SMS Analytics
- Built-in battery backup

Redundancy -Unique Architecture

Operates across challenging regions. Both hardware and software designed for reliability & visibility.

Solar Ready MPPT

HighVoltage Solar=Ready MPPT thereby reducing cost of Cabling and switchgears.

P-Secure at a glance



Technical Specification

	Nominal Voltage	220V – 240Vac	
AC input	Voltage Range	90Vac ~ 280Vac	
Ao input	Rated Current	80A	
	Frequency	50Hz/60Hz	
	Max. PV Array Power	6000Wp per PV input	
	PV Panel MPP Voltage	120Vdc ~ 430 Vdc	
Oalas issued	Nominal Input Voltage	360Vdc	
Solar input	Max. PV Panel Voltage	450Vdc	
	Max. PV Panel Current	22.5Adc per PV input (18Adc per PV input	
		usable)	
	Power Conversion Peak Efficiency	>96%	
	Number of PV Inputs	2	
	Battery Charging Current	160 Adc	
	Battery Discharging Current	280 Adc (cont.); 560 Adc surge (5 sec)	
D-HCli	Float Charge	55.2 Vdc (adjustable)	
Battery Charging	Boost Charge	57.6 Vdc (adjustable)	
Discharging	Equalization Charge	59.2 Vdc (adjustable)	
Specifications	Deep-Discharge Protection	44 Vdc (adjustable)	
opeomediione	Reconnect Level	54.7 Vdc (adjustable)	
The second secon	Overvoltage Protection	66 Vdc	
	Under voltage protection	37.5 Vdc	
	Nominal Output Voltage	220V – 240Vac ± 5% (adjustable)	
	Output Frequency	50/60 Hz (auto recognition)	
AC Output	Rated Output Current	80A	
AC Output	Rated AC Output Power	10000W	
	Surge Power	2x nominal power for 5 seconds	
\	Output Power Peak Efficiency	> 93%	
	Nominal Temperature	-10 to +50oC	
	Storage Temperature	-15 to +60oC	
	Relative Humidity	5% to 99% (non-condensing)	
	Max. Altitude	4,000m above sea level, 1%	
Environmental		power de-rating per 100m	
		above 1,000m above sea level	
_	Cooling	Self-cooled with fans	
	Ingress Protection Rating	IP22	
	Connectivity	RS-485 / RS-232 / RJ45 / Ethernet	
Communication	Connectivity Remote communication	10-403 / 10-232 / 1043 / Ethernet	
Communication	Monitoring Platform	yeSeN Telematics Platform	
	Monitoring Flatform	yeoer reiematics riationii	
	Certificates	CE Compliant, RoHS Compliant	
Canaral	Warranty	3 years	
General	Dimensions (H x W x D)	1300mm x 900 mm x 340 mm /	
		51.19in x 35.44in x 1	

Team House, 71 MRA, Kakkanad Ernakulam Dist, Kerala, India Pin 682 030 Tel +91 484 296 1176 Mobile +91 97442 25015 www.yesensustain.com

