

Sun-AP ECOPOWER

Model: SNAP 400PE INTEGRATED SOLAR PANEL DO-IT-YOURSELF KIT @12 years product & 25 years performance warranty on solar panel and 10 years warranty on Enphase microinverter







Highlights

- Solar AC power with “ONE” solar panel or 400w or 800w or 1200w or multiple panels with 12 years product & 25 years performance warranty on solar panel and 10 years warranty on microinverter
- Unique combination of one solar panel with one microinverter fixed behind the solar panel to give AC single phase, 220V output behind solar panel itself.
- Panasonic 400-Watt DC, Solar panel, high panel efficiency at 19.9%
- Enphase-USA patented digital microinverters Model IQ-7A, no DC, high safety, 220 V output, continuous AC power of 350 Watts in rated sunshine.
- Easy-to-connect by trained electrician for powering single phase loads.








Application

- For Solar Grid Connected System
- For Use without any battery.
- For use for powering daytime loads.
- For powering fans, lights, television, refrigerator, home water pump based on load design
- Works in presence of good sunshine powering loads directly with support of grid and helping reduce electricity bills.
- Can work in grid connected or captive use mode using Enphase-CT’s based grid export control.

Features of Model: SNAP 400PE INTEGRATED SOLAR PANEL

<p>TECHNOLOGY</p>  <p>LATEST RATED TECHNOLOGY Latest MonoPERC Half cut cell solar panel 19.9% efficiency and Digital Enphase IQ7A solar microinverter with 96.5% EU efficiency gives solar power at cloudy weather and low light conditions.</p>	<p>INSTALLATION</p>  <p>EASY & QUICK FIXING This portable solar panel can be installed on rooftop, ground mount and Canopies by any SunAP certified / EIN trained electrician in about 30 Minutes</p>
<p>SOLAR PANEL</p>  <p>BEST GLOBALLY * HIGHEST QUALITY 12 years product & 25 years performance warranty on solar panel and 10 years warranty on microinverter 80.7% rated module output in 25th year installation to be by Panasonic solar professional * IP 68 junction box</p>	<p>SAFETY</p>  <p>HIGH ELECTRICAL SAFETY SNAP AC module has no DC on roof. High safety of inverter under US-NEC and IEC standards for fire, shocks and outdoor use conditions</p>
<p>SOLAR INVERTER</p>  <p>BEST GLOBALLY * HIGHEST QUALITY * 10 years UNIQUE PRODUCT warranty by ENPHASE * 96.5% EU efficiency * installation to be by Enphase Installer Network * Smart Grid Ready, with AC battery compatible IP 67 outdoor, stable for housing deration > 85 degC</p>	<p>SERVICE & SUPPORT</p>  <p>QUICK ONLINE SUPPORT and EASE OF SERVICE Remote installation and service support by SunAP and through qualified local EIN or SunAP Certified Professional.</p>

“SNAP 400PE” description





S.NO	IMAGES	COMPONENTS	DESCRIPTION
1.		DC panel: ONE Panasonic 400 Wp solar panel, Enphase microinverter IQ7A	To convert solar energy into AC power. Cable has interlock and anti-theft connection using Enphase disconnect tool. (refer toolkit)
2.		Enphase AC Q-Cable Connector. Quantity as per model chosen. ONE per AC panel	To inter-connect AC panels before connecting to junction box and mains. AC-1 has one connector of 1.05 m; AC-2 has 2 connectors of 1.05 m continuous; AC-3 has 3 connectors of 1.05 m continuous;
3.		Enphase Envoy monitoring unit + control box + 2P MCB switch of ABB/ Schneider	To monitor the Enphase Microinverters at panel level and connection box from solar panel to load. To connect Q-cable one end to 2P MCB. Note: Fixing MCB in IP65 box and further connect to client electrical mains using armored aluminum cable, 2 core, with proper AC earthing by trained EIN or SunAP certified electrician.
4.		Tool Kit	Tool Kit will have ONE set SS-304 grade nuts and bolts with metal and EPDM washers for solar panel mounting stand assembly with ONE suitable spanner. ONE Enphase AC End terminator for every 10 AC panels and ONE Q-cable disconnect tool.
5.		ONE Aluminum Anodized Solar Panel Mounting stand with ONE per AC panel	Support structure to fix solar panel with easy to assemble nuts and bolts. Solar panels can be fixed with clamps and SS-304 hardware. The frame is adaptable for fixed RCC roof, or sloping roof. Roof should take weight of 30 kgs over 2 sqm with panel, frame and microinverter weight
6.		ONE Aluminum Anodized Solar Panel Mounting stand with ONE per AC panel	Solar Modules placed and fastened to aluminum frame and connected for complete ready to use 400 W rooftop solar system
7.		One panel kit	System is ready - get AC power and connect the loads, single phase 220v grid connected system (Grid reference required)

SNAP Models 400PE, 800PE & 1200PE Bill of Material

No	Model Description	AC Model components	System rating
1	SNAP 400PE	Solar Panel – 1 Solar Microinverter – 1 Enphase Envoy-S Monitoring device - 1 Solar Panel frame – 1 Q-cable 1.05m - 1 Solar ACDB – 1 Tool Kit – 1	400 Watts DC • At 1000W solar radiation, Generates approximately 1.6 units based on location and orientation
2	SNAP 800PE	Solar Panel – 2 Solar Microinverter – 2 Enphase Envoy-S Monitoring device - 1 Solar Panel frame – 2 Q-cable 1.05m - 2 Solar ACDB – 1 Tool Kit – 1	800 Watts DC • At 1000W solar radiation, Generates approximately 3.2 units based on location and orientation
3	SNAP 1200PE	Solar Panel – 3 Solar Microinverter – 3 Enphase Envoy-S Monitoring device - 1 Solar Panel frame – 3 Q-cable 1.05m - 3 Solar ACDB – 1 Tool Kit - 1	1200 Watts DC • At 1000W solar radiation, Generates approximately 4.8 units based on location and orientation

How to check the AC panel working?

To check the power generation from AC panel, you can see at colour coding microinverter.

Colour code	Description
Orange 	Solar is generating AC power
Flashing Red 	No grid power available
Solid Red 	No solar power available
Green 	Communication working if Envoy-S connected