

SYNAPSE 3.0+ Off-Grid Inverter

SYNAPSE

- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Inverter running without battery
- Built-in 80A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dusk kit for harsh environment



Model

Product Code	SYNAPSE 3.0+
Rated Power	3000VA / 3000W

Input

Voltage	230V AC
Selectable Voltage Range	170 - 280V AC (For Personal Computers); 90 - 280V AC (For Home Appliances)
Frequency Range	50Hz / 60Hz (Auto sensing)

Output

AC Voltage Regulation (Battery Mode)	230V AC \pm 5%
Surge Power	6000VA
Efficiency (Peak)	90% ~ 93%
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)
Waveform	Pure sine wave

Battery

Battery Voltage	24V DC
Floating Charge Voltage	27V DC
Overcharge Protection	33V DC

Solar Charger & AC Charger

Maximum PV Array Open Circuit Voltage	145V DC
Maximum PV Array Power	1500W
MPP Range @ Operating Voltage	30 ~ 115V DC
Maximum Solar Charge Current	60A
Maximum AC Charge Current	60A
Maximum Charge Current	120A

Physical

Dimension (D x W x H)	100 x 300 x 440mm
Net Weight	9,5kgs
Communication Interface	USB / RS232

Environment

Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

Product specifications are subject to change without further notice.