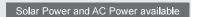
BOS

SYNAPSE 5.0+ Off-Grid Inverter

- · 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



Operation with battery connected





Solar Power and AC	Power not available



Operation with battery connected



Model

Product Code	SYNAPSE 5.0+
Rated Power	5000VA / 5000W

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 ± 5%
Surge Power	10000VA
Efficiency (Peak)	90% ~ 93%
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)
Waveform	Pure sine wave

Battery

Battery Voltage	48V DC
Floating Charge Voltage	54V DC
Overcharge Protection	63V DC

Solar Charger & AC Charger

Maximum PV Array Open Circuit Voltage	500V DC
Maximum PV Array Power	4000 W
MPP Range @ Operating Voltage	120 ~ 450V DC
Maxmum Solar Charge Current	80A
Maximum AC Charge Current	60A
Maximum Charge Current	80A

Physical

Dimension (D x W x H)	100 x 300 x 440mm
Net Weight	10kgs
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.	