

SYNAPSE

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 available



Solar Power and AC Power not available



Operation with battery connected

Solar Power available



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 \pm 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
Maximum 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.