



SYNAPSE 5.0KRM+

Features

- ◆ Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- ◆ Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- ◆ Configurable AC/PV output usage timer and prioritization
- ◆ Pure sine wave solar inverter
- ◆ Selectable high power charging current
- ◆ Wide DC input Range
- ◆ Compatible to mains voltage or generator power
- ◆ Auto restart while AC is recovering
- ◆ Overload and short circuit protection
- ◆ Smart battery charger design for optimized battery performance
- ◆ Cold start function
- ◆ Optional parallel operation up to 9 units

Model	
Product Code	SYNAPSE 5.0KRM+
Rated Power	5000VA / 5000W
Parallel Capability	Up to 9 units
Input	
Voltage	230V AC
Voltage Range	110–280V AC
Frequency Range	50Hz / 60Hz (Auto Sensing)
Output	
AC Voltage Regulation (Battery Mode)	230V AC \pm 5%
Surge Power	10000VA for 5 sec
Efficiency (Peak)	93% at Line Mode, 90% at Battery Mode
Transfer Time	0ms
Waveform	Pure sine wave
Battery	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
Solar Charger & AC Charger	
Solar Charge Type	MPPT
Maximum PV Array Open Circuit Voltage	145 VDC
Maximum PV Array Power	4000W
MPPT Range @ Operating Voltage	60–115V DC
Maximum Solar Charge Current	80A
Maximum AC Charge Current	60A
Maximum Charge Current	140A
Physical	
Dimensions (D x W x H)	466.3mm X 438mm X 130.8mm
Net Weight	15kg
Communication Interface	USB / RS232 / RS485 / Bluetooth / Dry-contact / Wifi
Environment	
Humidity	5% to 95% Relative Humidity (Non-Condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C