SYNAPSE

3.0+ Off-Grid Inverter

- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in 60A MPPT solar charger
- Battery equalization function to optimize battery
 performance and extend lifecycle
- Built-in anti-dust kit for harsh environment use



Model	SUNAPSE
Product Code	SYNAPSE 3.0+
Rated Power	3000VA / 3000W
	3.0+ .
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	6000VA
Efficiency (Peak)	90%-93%
Transfer Time	10ms (For Personal Computers); 20ms (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
Maxmum 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.	





3.0V+ Off-Grid Inverter

- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Built-in 40A MPPT solar charger
- Battery equalisation function to optimise battery performance and extend lifecycle



		NAPSE
Model		
Product Code	SYNAPSE 3.0V+	
Rated Power	3000VA / 2400W	∋.0+ ,
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	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	32V DC

Solar Charger & AC Charger	
Maximum PV Array Open Circuit Voltage	102V DC
Maximum PV Array Power	1000W
MPP Range @ Operating Voltage	30-80V DC
Maxmum Solar Charge Current	40A
Maximum AC Charge Current	25A
Maximum Charge Current	60A

Physical	
Dimension (D x W x H)	88 x 225 x 320mm
Net Weight	6,0kgs
Communication Interface	USB / RS232

Environment				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	-10°C to 55°C			
Storage Temperature	-15°C to 60°C			
Product specifications are subject to change without further notice.				





5.0+ Off-Grid Inverter

- Pure sine wave solar inverter.
- Output power factor 1.
- High PV input voltage range.
- Built-in 80A MPPT solar charger.
- Battery equalisation function to optimise battery. performance and extend lifecycle.
- Built-in anti-dust kit for harsh environment use.



SUNAPSE	

Model		
Product Code	SYNAPSE 5.0+	
Rated Power	5000VA / 5000W	5.0+
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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	4000W	
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.				





5.0K+ Off-Grid Inverter

- Zero transfer time to protect missioncritical loads such as servers and ATM.
- Detachable LCD control module with multiple communications.
- Built-in Bluetooth for mobile monitoring (Android App is available).
- Supports USB On-the-Go function.
- Reserved communication port for BMS (RS485, CAN-BUS or RS232).
- Configurable AC/PV output usage timer and prioritisation.
- Optional parallel operation up to 9 units.



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SUNAPSE	
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Model		
Product Code	SYNAPSE 5.0K+	5.014
Rated Power	5000VA / 5000W	S.OK+
Parallel Capability	Up to 9 units	
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Input	
Voltage	230V AC
Voltage Range	110-280V AC
Frequency Range	50Hz / 60Hz (Auto sensing)

Output		
AC Voltage Regulation (Battery Mode)	230V AC ± 5%	
Surge Power	10000VA for 5 sec	
Efficiency (Peak)	93% at Line Mode, 90% at Battery Mode	
Transfer Time	Oms	
Waveform	Pure sine wave	

Solar Charger & AC Charger		
Maximum PV Array Open Circuit Voltage	145V DC	
Maximum PV Array Power	4000W	
MPP Range @ Operating Voltage	60-115V DC	
Maxmum Solar Charge Current	80A	
Maximum AC Charge Current	60A	
Maximum Charge Current	140A	

Physical	
Dimension (D x W x H)	140 x 303 x 525mm
Net Weight	13.5kgs
Communication Interface	USB / RS232 / RS485 / Bluetooth / Dry-contact

Environment	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	0°C to 55°C
Storage Temperature	-15°C to 60°C
Product specifications are subject to change without further notice.	

