

SNM-ECO OFF GRID SOLAR INVERTER



Typical Applications

- Residential Solar Power Systems - Ideal for homes to provide backup power during outages or energy-saving operations.
- Telecommunication Base Stations - Can be used to power remote telecom equipment, ensuring uninterrupted connectivity. Small
- Business Operations - Suitable for offices, shops, or small businesses needing reliable off-grid power solutions. Rural Electrification
- Projects - Perfect for areas without grid access, powering basic household and community needs. Emergency Power Backup Systems -
- Essential for hospitals, schools, or emergency centers to ensure critical power supply.

Features

- Pure sine wave solar inverter (On and off grid)
- Output power factor 1.0, WIFI & GPRS available for IOS and Android
- Inverter can run without battery, One-Key restoration to factory settings
- Built-in Lithium battery automatic activation
- Dual communication ports for battery and WIFI communication
- Built-in 120 A MPPT solar charger: MAX 6200 W (for 3.6kw/4.2kw max 6500W for 6.2 Kw)
- Built-in 80A MPPT Solar charger (Max 6500 W for 3.6Kw/48V)
- High PV input voltage range (65~500 VDC)
- Smart battery charge design to optimize battery life
- Dual output and anti-dust kit

MODEL	SNM-3.2 KW Plus	SNM-4.2KW-Plus -1- phase	SNM-6.2KW-Plus
Maximum PV Input Power	6200W 6500W	6200W	6500W
Rated Output Power	3600W/ 3600VA	4200W/ 4200VA	6200W/ 6200VA
Maximum Solar Charging Current	120A 80A	120A	120A
GRID TIE OPERATION - PV INPUT (DC)			
Nominal DC Voltage/Maximum DC voltage	360/500VDC		
Startup voltage/initial feeding voltage	60 VDC/90 VDC		
MPPT Voltage Range	60~450 VDC		
Maximum input current	1/18A 1/22A	1/18A	1/22A
GRID OUTPUT AC			

	SNM-3.2 KW Plus	SNM-4.2KW- Plus -1- phase	SNM-6.2KW- Plus
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195~253 VAC		
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor	0.99		
Maximum Conversion Efficiency (DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	3600W	4200W	6200
Maximum Main Load	3600W	4200W	6200
Maximum Second Load (Battery mode)	1200W	1400W	2067W
Maximum Load Cut off Voltage	26VDC 52VDC	26VDC	52VDC
Maximum Load Return Voltage	27VDC 54VDC	27VDC	54VDC
OFF-GRID OPERATION -AC INPUT			
Acceptable Input Voltage Range	90~280 VAC or 170~280 VAC		
Frequency Range	51~61 ± 1HZ		
Maximum AC Input current	21.1A	24.7A	36.4A



SATTE

PRODUCT DATASHEET

SNM-ECO OFF GRID SOLAR INVERTER

PG 2

MODEL	SNM-3.2KW Plus	SNM-4.2KW-Plus -1-phase	SNM-6.2KW-Plus
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
MPPT Voltage Range	60~450 VDC		
Maximum Input Current	1/18A 1/22A	1/18A	1/22A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Wave Form	Pure Sine Wave		
Efficiency (DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC 48VDC	24VDC	48VDC
Maximum Solar Charging Current	120A 80A	120A	120A
Maximum AC Charging Current	100A 60A	100A	100A
Maximum Solar + AC Charging Current	120A 80A	120A	120A
HYBRID OPERATION PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
Startup Voltage/Innitial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	60~450 VDC		
Maximum Input Current	1/18A 1/22A	1/18A	1/22A

	SNM-3.2 KW Plus	SNM-4.2KW-Plus -1-phase	SNM-6.2KW-Plus
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195~253 VAC		
Nominal Output Current	15.7A	18.2A	27.0A
AC INPUT			
AC Startup Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC OR 170-280VAC		
Maximum AC Input Current	21.1A	24.7A	36.4A
Maximum Charging Current	100A		
GENERAL			
Dimensions H*W*D (mm)	420*350*110		
Carton Dimensions H*W*D (mm)	500*415*180		
Net Weight (Kgs)	8.0	8.0	8.9
Gross Weight (Kgs)	9.0	9.0	10.0
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY		
Humidity	5% to 95% Relative humidity (Non-condensing)		
Operating Temperature	10°C~50°C		
Compliance Safety	CE		

Battery Compatibility

[Pylon/tbbriio sum](#) |
 [Crowatt](#) |
 [Goodwe](#) |
 [Sofarsolar](#) |
 [Victron](#) |
 [Voltronic/raion/outb ackalpha /yeastman](#) |
 [Lxp](#) |
 [Deye/sunsynk](#) |
 [Ginlong](#) |
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