



SNA 6K OFF-GRID INVERTER

TECHNICAL SPECIFICATION SHEET

QUICK SPECS

SNA 6K	
Rated Output Power (W)	6000
Surge Power (W)	12000 (5s)
Max PV Input Power (W)	9600
MPPT Inputs	2 (Dual MPPT)
PV Input Voltage Range	100–500 (max), 120–385 MPPT
Rated Battery Voltage (V)	48/51.2
Battery Type	Lithium-ion / Lead-acid
Max. Charge/Discharge Current	140A
Switching Time (UPS)	<7ms (single)
Rated Output Voltage	230V (50/60Hz)
Waveform	Sine wave
Max. AC Input Power (W)	9000
Parallel Operation	Up to 18 units
Dimensions (W × H × D) mm	330 × 505 × 135
Weight (kg)	14.5
IP Rating	IP20
Warranty	3 years

Designed for off-grid and battery storage applications, the SNA 6K delivers strong solar input performance, high battery throughput, and flexible system integration. With dual MPPTs, generator support, and scalable parallel capability, it offers a reliable and efficient solution for stable energy supply across a wide range of applications.

MONITORING & INSTALLATION

- Remote monitoring via the LuxPowerTek app
- RS485, Wi-Fi, and CAN communication
- Compact wall-mounted design

BATTERY PAIRING

The SNA 6K is designed to work reliably with the Fogstar Energy 48V battery range, delivering a balanced mix of power, storage, and scalability. Whether you're building a compact home system or a larger energy setup, there's a configuration to match your needs.

Best overall: Fogstar Energy 48V 10kWh

- Ideal balance of capacity and performance for most residential systems.

Premium Option: Fogstar Energy 48V 16.1kWh or 16.1kWh ECO

- Maximum storage for longer runtimes and higher energy demands.

Scalable Option: Fogstar Energy 48V 5.12kWh Rack Batteries

- Flexible modular setup, perfect for expanding systems over time.



INPUT (PV DC)		SNA-EU 6000
Max. PV Input power (W)		9600 (4800/4800)
Rated PV input voltage(V)		320
Number of independent MPPT inputs		2
Max. PV input voltage (V)		500
MPPT voltage range (V)		120 ~ 385
Start-up voltage (V)		100
Max. PV input current per MPPT (A)		17/17
Max. PV short-circuit current input per MPPT (A)		25/25
Battery		
Battery voltage range (V)		38.4 ~ 60
Max. charge/discharge current (A)		140
Max. charge/discharge power (W)		6000
Force wake up battery from PV and Grid function		YES
Grid		
Rated AC voltage (V)		230
Rated AC frequency (Hz)		50/60
Rated AC output current (A)		26.5
Rated AC output power (W)		6000
Max. AC input power (W)		9000
PF		0.99
THDI		< 5%
Max. continuous AC passthrough current (A)		40
GEN		
Rated GEN voltage (V)		220 / 230 / 240
Rated GEN frequency (Hz)		50/60
Rated GEN input current (A)		32
Rated GEN input power (W)		7370
UPS		
Rated output power (W)		6000
Rated output voltage (V)		230
Rated output current (A)		26.5
Rated output frequency (Hz)		50/60
Surge power, duration		2 × rated power for 5s
Switching time		<7ms @ Single / <20ms @ Parallel
Waveform		Sine wave
THDV		<3 %
Efficiency		
Max. MPPT efficiency		99.9 %
EU efficiency		94.7 %
Max. Efficiency		93.0 %
Max. Charge/Discharge efficiency		93.0 %
Protection		
Over Current/Voltage protection		YES
AC short-circuit current protection		YES
Grid monitoring		YES
AC Surge protection		Type III
Battery reverse polarity protection		YES
General		
Operating environment temperature range (°C)		0 ~ 50
Storage temperature range (°C)		-15 ~ 60
Relative humidity		5%~95 %
Display & Communication interface		LCD + LED, RS485 / Wi-Fi / CAN
Cooling method		Smart Cooling
Topology		Transformer-less
Max. Operating Altitude (m)		2000
Noise emission (dB)		<50dB
Standards & Certification		
IEC 62109-1/2, IEC 61683, EN 61000, MEA, PEA		