LUXPOWERTEK

ECO HYBRID

SNA 3-6K

(Single-Phase)

9.6kW
Max. PV input power

140A
Max. charge/discharge current

100~500V
PV input voltage

- Off-grid seamless switching
- Supports up to 16 units in parallel
- 24/7 real-time monitoring via LUX app
- Dedicated port for Generator, Smart load and AC coupling

SPECIFICATIONS

Model	SNA 3K	SNA 4K	SNA 5K	SNA 6K
Input (PV DC)				
Max. PV input power (W)	6000 (3000/3000)	8000 (4000/4000)	8000 (4000/4000)	9600 (4800/4800)
Rated PV input voltage (V)	320			
Number of independent MPPT inputs	2 / (1:1)			
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				
Compatible battery type	Lithium-ion / Lead-Acid			
Rated battery voltage (V)	48			
Battery voltage range (V)	38.4 ~ 60			
Max. charging/discharging current (A)	70/70	90/90	110/110	140/140
Max. charging/discharging power (W)	3000	4000	5000	6000
Force wake up battery from PV&Grid function	YES			
Grid				
Rated AC voltage (V)	230			
Rated AC frequency (Hz)	50 / 60			
Rated AC output current (A)	13.04	17.39	21.74	26.09
Rated AC output power (W)	3000	4000	5000	6000
Max. AC input power (W)	8000			9000
PF	0.99			
THDI	< 5%			
Max. continuous AC passthrough current (A)	35			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)	3000	4000	5000	6000
Rated output voltage (V)	230			
Rated output current (A)	13.04	17.39	21.74	26.09
Rated output frequency (Hz)	50 / 60			
Surge power, duration	2 × rated power for 5s			
Switching time	<7ms@Single / <20ms@Parallel			
Wave form	Sine wave			
THDV	< 3%			
Efficiency				
MPPT efficiency	99.9%			
EU efficiency	93.5%			
Max. efficiency	95.0%			
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				
Dimensions (W × H × D)	330 × 505 × 135 mm / 13 × 19.9 × 5.3 in			
Weight	14.5 kg / 32 lbs			
Ingress protection rating	IP20			
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			
Warranty	2 years			
Cooling method	Smart Cooling			
Topology on AC / Battery side	Transformerless / Transformer			
Max. operating altitude (m)	4000, > 2000 Derating			
Noise emission (dB)	< 50			
Standards & Certification				
IEC 62109-1/2, IEC 61683, EN 61000, MEA/PEA, IEC 61683, IEC 62116, IEC 61727, UN 38.3				