

ECO HYBRID

# SNA 3-6K (Single-Phase)

- Off-grid seamless switching
- 2 MPPTs, Max. PV input: 9.6kW
- Wide PV input voltage range: 100~500V
- Supports up to 18 units in parallel
- Max. charging and discharging current 140A
- Dedicated port: Supports generator, AC coupling or smart load management for enhanced stability
- 24/7 real-time monitoring via LUX app with worry-free updates



Model	SNA 3K	SNA 4K	SNA 5K	SNA 6K
<b>Input (PV DC)</b>				
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			
<b>Battery</b>				
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 function	YES			
Force wake up battery from Grid function	YES			
<b>Grid</b>				
Rated AC voltage (V)	230			
Rated AC frequency (Hz)	50 / 60			
Rated AC output current (A)	13.5	17.5	22	26.5
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
<b>GEN</b>				
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			
<b>UPS</b>				
Rated output power (W)	3000	4000	5000	6000
Rated output voltage (V)	230			
Rated output current (A)	13.5	17.5	22	26.5
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%			
<b>Efficiency</b>				
Max. MPPT efficiency	99.9%			
EU efficiency	94.7%			
Max. efficiency	93.0%			
Max. charge / discharge efficiency	93.0%			
<b>Protection</b>				
Over current/voltage protection	YES			
AC Short-circuit current protection	YES			
Grid monitoring	YES			
AC surge protection	Type III			
Battery reverse polarity protection	YES			
<b>General</b>				
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	Transformerless			
Max. Operating Altitude (m)	2000			
Noise emission (dB)	50			
<b>Standards &amp; Certification</b>				
IEC 62109-1/2, IEC 61683, EN 61000, MEA, PEA				