

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
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)			
PV input voltage range (V)	100~500			
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
Recommend capacity of battery per inverter	>100AH	>200AH	>200AH	>200AH
Force wake up battery from PV function	YES			
Force wake up battery from Grid function	YES			
Grid				
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			
PF	0.99(Adjustable from 0.8 leading to 0.8 lagging)			
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			
Rated GEN current of BYPASS relays (A)	60			
UPS				
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	2Pn, <5s			
Switching time	<10ms@Single/<20ms@Parallel			
Wave form	Sine wave			
THDV	3%			
Efficiency				
Max. MPPT efficiency	99.9%			
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				
Dimensions (W*H*D)	330*505*135mm/13*19.9*5.3inch			
Weight	14.5kg/32lbs			
Ingress protection rating	IP21			
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	Transformer-less			
Altitude(m)	<2000			
Noise emission (typical)	<50dB			
Standards & Certification				
IEC 62109-1/2, IEC 61683, EN 61000				