

ECO HYBRID

SNA US 6K

- 240V/120V off-grid split-phase output
- Supports up to 16pcs in parallel
- Off-grid seamless switching
- AFCI protection integrated
- Dedicated port for generator, AC coupling or smart load management
- Breakers (Grid, Load, Gen and Battery) and PV switch are integrated



Model		SNA US 6K
Input (PV DC)		
Max. PV input power (W)		8000 (4000 / 4000)
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)		125 / 140
Max. charging/discharging power (W)		6000
Force wake up battery from PV function		YES
Force wake up battery from Grid function		YES
Grid		
Rated AC voltage (V)		110(L-N) / 220(L1-L2); 120(L-N) / 240(L1-L2)
Rated AC frequency (Hz)		50 / 60
Max. AC input current (A)		41A@220V / 37.5A@240V
Max. AC input power (W)		9000
Max. continuous AC passthrough current (A)		50
GEN		
Rated GEN voltage (V)		120 / 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)		110 / 220; 120 / 240
Rated output current (A)		28A@220V / 25A@240V
Rated output frequency (Hz)		50 / 60
Surge power, duration		2 × rated power for 2s
Switching time		<7ms@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
DC switch		YES
Rapid shut down		YES
PV Arc Fault Detection		YES
AC & UPS breaker (Current/Voltage)		50A / 230VAC
Battery breaker (Current/Voltage)		200A / 80V/DC
GEN breaker (Current/Voltage)		50A / 230V/AC
General		
Dimensions (W × H × D)		450 × 650 × 150 mm / 17.7 × 25.6 × 5.9 in
Weight		24 kg / 53 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
Standards & Certification		
CSA STD. C22.2 No.107.1, UL STD.1741,FCC Part 15B, ICES		

*Note: 115A @48VDC (AC), 125A @44VDC (AC), 125A @48VDC (PV)