

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	Transformer-less
Max. Operating Altitude (m)	2000
Noise emission (dB)	50
Standards & Certification	
CSA STD. C22.2 No.107.1, UL STD.1741,FCC Part 15B	
*Note: 115A @48VDC (AC), 125A @44VDC (AC), 125A @48VDC (PV)	