

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)
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)	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	2Pn, <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*150mm / 17.7*25.6*5.9 in
Weight	24kg / 53lbs
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
Altitude	<2000m
Noise emission(typical)	<50dB
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)	