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)	100~480
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
Gird	
Rated AC voltage(V)	110(L-N)/220(L1-L2); 120(L-N)/240(L1-L2)
Rated AC frequency (Hz)	50/60
Max. AC intput current (A)	41A@220V/37.5A@240V
Max. AC intput 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
Rated GEN current of BYPASS relays (A)	60
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)