ECO HYBRID

Split-Phase

SNA **US 6000**

- 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 (Gen, Load and Battery) and PV switch are integrated





Specification

Your Reliable Energy Solution Partner

Input (PV DC)	SNA-US 6000
Max. PV array 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. charge/discharge current(A)	125/140
Max. charge/discharge 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
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	<15ms@Single/<30ms@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	YES
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*5.9inch
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
Standard & Certification	
CSA STD. C22.2 No.107.1, UL STD.1741	

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