

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

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)