ECO HYBRID

Split-Phase

SNA US **12K**

- 240/120V off-grid split-phase output
- 2 MPPTs with 4 strings, Max. 24kW PV input
- Max. charging and discharging current: 250A
- AFCI Protection Integrated
- Dual AC output ports for multiple load connections
- Separate GEN port

  -Up to 19.2kW Gen/AC coupling input

  -Auto generator start and stop control
- Integrated Design with Load and Battery Breaker
- PV or AC or Generator wake up battery
- AC/Generator (input 240V or 120V) charge function
- Supports up to 16 units in parallel





Specifications

INPUT (PV DC)	SNA US 12000W
Max. PV input power (W)	24000 (12000/12000)
Rated PV input voltage (V)	320
Number of independent MPPT inputs	2/(2:2)
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)	35/35
Max. PV short-circuit current input per MPPT (A)	44/44
Battery	
Compatible battery type	Lithium-ion/Lead-Acid
Rated battery voltage (V)	48/51.2
Battery voltage range (V)	46.4-60/38.4-60
Max. charging / discharging current (A)	250
Max. charging / discharging power (W)	12000
Force wake up battery from PV and Grid function	YES
Grid	
Rated AC voltage (V)	110/220; 120/240
Acceptable input voltage range (V)	90~280
Rated AC frequency (Hz)	60/50
Rated AC input current (A)	105@220V/100@240V
Rated AC input power (W)	24000
PF	0.99
THDI	<5%
Max. continuous AC passthrough current(A)	100
UPS	
Rated output power (W)	12000
Rated output voltage (V)	110/220; 120/240
Rated output current (A)	54@220V/50@240V
Rated output frequency (Hz)	50/60
Surge power, duration	2Pn, 5s
Switching time (UPS)	<7ms@Single; <10ms@Parallel
Wave form	Sine wave
THDV	3%
GEN	
Acceptable input voltage range	110/220; 120/240
Max. AC input voltage (V)	280
Max. AC input current (A)	63
Rated input frequency	50Hz/60Hz (Auto detection)
Transfer time	<10ms@Single; <20ms@Parallel
THDV	<3%
Overload protection	5s@≥150% load /10s@110%~150% load
Efficiency	
Max. efficiency	93.5%
Max. charging / discharging efficiency	93.0%
Max. MPPT efficiency	99.0%
Protection	
PV reverse polarity protection(Y/N)	YES
Over current / voltage protection(Y/N)	YES
AC Short-circuit current protection(Y/N)	YES
Grid monitoring(Y/N)	YES
DC switch(Y/N)	YES
DC Surge protection	Type lll
AC Surge protection	Type lll
Battery reverse polarity protection(Y/N)	YES
RSD / AFCI monitoring(Y/N)	YES
UPS/Battery breakers integrated	YES
General	
Dimensions (W*H*D mm)	530*830*150mm (17.72*25.59*5.9inch)
Weight	45kg/99.2lbs
Ingress protection rating	IP20
Operating environment temperature range(°C)	0~45
Storage temperature range(°C)	-15~60
Relative humidity	5%~95%
Display & Communication interface	LCD+RGB, RS485 / Wifi / CAN
Warranty	2 years
Cooling method	Smart cooling
Topology on AC / Battery side	Transformer-less / Transformer
Altitude (m)	<2000
Noise emission (typical)	<50dB
Standard & Certification	
Certified to CSA STD.C22.2 No.107.1	