

ECO HYBRID

SNA US 12-15K

- 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
- 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
- Dedicated GEN Port with Auto-Start and GEN Boost Function



Model	SNA US 12K	SNA US 15K
Input (PV DC)		
Max. PV input power (W)	24000 (12000 / 12000)	
Rated PV input voltage (V)	320	
Number of independent MPPT inputs	2 / (2:2)	
Max. PV input voltage (V)	480	
MPPT voltage range (V)	120 ~ 440	
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)	120 / 240; 120 / 208	
AC Start-up Voltage	90 (L-L)	
Acceptable Input Voltage Range (V)	130 ~ 280 (L-L)	
Rated AC frequency (Hz)	50 / 60	
Rated AC input current (A)	100A@240V	
Rated AC input power (W)	24000	
PF	0.99	
THDI	< 5%	
Max. continuous AC passthrough current(A)	100	
GEN		
Rated GEN voltage (V)	120 / 240; 120 / 208	
Rated GEN frequency (Hz)	50 / 60	
Rated GEN input current (A)	62.5	
Rated GEN input power (W)	15000	
UPS		
Rated output power (W)	12000	15000@240V (with PV + Battery)
Rated output voltage (V)	120 / 240; 120 / 208	
Rated output current (A)	50@240V	62.5@240V
Rated output frequency (Hz)	50 / 60	
Surge power, duration	2 × rated power for 5s	
Switching time (UPS)	<10ms	
Wave form	Sine wave	
THDV	3%	
Overload protection	5s@≥150% load / 10s@110%~150% load	
Efficiency		
MPPT efficiency	99.0%	
Max. efficiency	93.5%	
Max. charge / discharge efficiency	93.0%	
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 III	
AC Surge protection	Type III	
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 × 150 mm / 17.72 × 25.59 × 5.9 in	
Weight	47.5 kg / 104.72 lbs	
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	Transformerless / Transformer	
Max. Operating Altitude (m)	2000	
Noise emission (dB)	50	
Standard & Certification		
CSA STD.C22.2 No.107.1, UL1741, FCC part 15B, ICES		