

LU  POWER^{TEK}

ECO HYBRID*

SNA-US 7.5-15K

(Split-Phase)



24kW

Max. PV input power



250A

Max. charge/discharge current



16

Units parallel

- 240/120V split-phase off-grid output
- Dual AC output ports for multiple load connections
- AFCI protection integrated
- Dedicated GEN port with Auto-Start and GEN Boost

*Available as Eco Hybrid solution in selected markets

SPECIFICATIONS

Model	SNA US 7.5K	SNA US 8K	SNA US 10K	SNA US 12K	SNA US 15K
Input (PV DC)					
Max. PV input power (W)	18000 (9000 / 9000)			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)	26 / 26			35 / 35	
Max. PV short-circuit current input per MPPT (A)	32.5 / 32.5			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)	180		230		250
Max. charging / discharging power (W)	8500		11000		12000
Force wake up battery from PV&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)	68.2A@240V		91A@240V		100A@240V
Rated AC input power (W)	15000		20000		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)	41.7			62.5	
Rated GEN input power (W)	10000			15000	
UPS					
Rated output power (W)	7500	8000	10000	12000	15000@240V (PV + BAT)
Rated output voltage (V)	120 / 240 ; 120 / 208				
Rated output current (A)	31.3A@240V	33.3A@240V	41.7A@240V	50A@240V	62.5A@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% of rated output power 10s @ 110%~150% of rated output power				10s@>128% of rated output power
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 / 20.87 × 32.68 × 5.91 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)	4000, > 2000 Derating				
Noise emission (dB)	< 50				
Standard & Certification					

CSA STD.C22.2 No.107.1, UL1741, FCC part 15B, ICES-003, INMETRO Portaria 140/515