

ECO HYBRID* //

SNA PRO-US 4.5K-120

(Single-Phase)



120V

AC input/output voltage



IP66

Protection rating



16

Units parallel

- Smart cooling for quieter operation
- Comprehensive protection for safe operation
- Dedicated GEN / Smart Load / AC coupling port
- Smart monitoring via LuxCloud

*Available as Eco Hybrid solution in selected markets

SPECIFICATIONS

Model	SNA PRO-US 4.5K-120
Input (PV DC)	
Max. PV array power (W)	12000 (6000/6000)
Max. PV input power (W)	9000 (4500/4500)
Rated PV input voltage (V)	310
Number of independent MPPT inputs	2
Max. PV input voltage (V)	500
MPPT voltage range (V)	80 ~ 400
Start-up voltage (V)	80
Max. PV input current per MPPT (A)	20 / 20
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. charging / discharging current (A)	94 / 100
Max. charging / discharging power (W)	4500 / 4800
Force wake up battery from PV&Grid function	YES
Grid	
Rated AC voltage (V)	120
Rated AC frequency (Hz)	50 / 60
Max. AC input current (A)	85-140VAC(For Personal Computer); 45-140VAC(For Home Appliances)
AC voltage range (V)	55
Max. AC input power (W)	6600
Max. continuous AC passthrough current (A)	55
GEN	
Rated GEN voltage (V)	120
Rated GEN frequency (Hz)	50 / 60
Rated GEN input current (A)	55
Rated GEN input power (W)	6600
UPS	
Rated output power (W)	4500
Rated output voltage (V)	120
Rated output current (A)	37.5
Rated output frequency (Hz)	50 / 60
Surge power, duration	9000W, 5s
Switching time	< 15ms @ Single ; < 30ms @ Parallel
Wave form	Sine wave
THDV	< 3%
Efficiency	
MPPT efficiency	99.0%
Max. efficiency	96.0%
Max. charge efficiency	96.0%
Max. discharge efficiency	94.0%
Protection	
Over current/voltage protection	YES
Anti-islanding protection	YES
AC short-circuit current protection	YES
Grid monitoring	YES
Residual current monitoring	YES
Arc fault circuit linterrupter	Optional
AC / DC surge protection	Type II
PV switch	YES
General	
Dimensions (W × H × D)	384 × 434 × 187 mm / 15.12 × 17.09 × 7.36 in
Weight	16.95 kg / 37.38 lbs
Ingress protection rating	IP66
Operating environment temperature range (°C)	-25 ~ 60, >45°C derating
Storage temperature range (°C)	-40 ~ 65
Relative humidity	5% ~ 95%
Display & Communication interface	LCD + LED, RS485 / Wi-Fi / CAN
Warranty	5 years
Cooling method	Smart Cooling
Topology on AC / Battery side	Transformerless / Transformer
Max. operating altitude (m)	4000, >2000 Power derating
Noise emission (dB)	< 40