

ECO HYBRID

# SNA PRO-US 4.5K

- 120V AC input & output
- IP66 outdoor-ready design
- Smart cooling for quieter operation
- Supports up to 16 units in parallel
- Comprehensive protection for safe operation
- Dedicated GEN / Smart Load / AC coupling port
- Smart monitoring via LuxCloud



<b>Model</b>		<b>SNA PRO-US 4.5K</b>
<b>Input (PV DC)</b>		
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
<b>Battery</b>		
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 function		YES
Force wake up battery from Grid function		YES
<b>Grid</b>		
Rated AC voltage (V)		120
Rated AC frequency (Hz)		50 / 60
Max. AC input current (A)		55
Max. AC input power (W)		6600
Max. continuous AC passthrough current (A)		55
<b>GEN</b>		
Rated GEN voltage (V)		120
Rated GEN frequency (Hz)		50 / 60
Rated GEN input current (A)		55
Rated GEN input power (W)		6600
<b>UPS</b>		
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%
<b>Efficiency</b>		
MPPT efficiency		99.0%
Max. efficiency		96.0%
Max. charge efficiency		96.0%
Max. discharge efficiency		94.0%
<b>Protection</b>		
PV reverse polarity protection		YES
Over current / voltage protection		YES
Anti-islanding protection		YES
AC Short-circuit current protection		YES
Leakage current protection		Optional
Grid monitoring		YES
Ground fault monitoring		YES
AC / DC surge protection		Type II
PV switch		YES
<b>General</b>		
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 side		Transformerless
Topology on Battery side		Transformer
Max. operating altitude (m)		4000, >2000 Power derating
Noise emission (dB)		40
<b>Standards &amp; Certification</b>		