

LU X POWER^{TEK}

ECO HYBRID* //

SNA PRO-EU 3-8K

(Single-Phase)



12kW

Max. PV input
power



180A

Max. charge/discharge
current



IP66

Protection rating

- Off-grid seamless switching, auto transition for uninterrupted power
- Supports up to 16 units for scalable energy solutions
- Remote configuration and real-time performance tracking
- Dedicated port for Generator or Smart load management

*Available as Eco Hybrid solution in selected markets

SPECIFICATIONS

Model	SNA PRO-EU 3K	SNA PRO-EU 4K	SNA PRO-EU 5K	SNA PRO-EU 6K	SNA PRO-EU 6.5K	SNA PRO-EU 8K
Input (PV DC)						
Max. PV array power (W)	7500 (3750/3750)	10000 (5000/5000)	12500 (6250/6250)	15000(7500/7500)		
Max. PV input power (W)	6000 (3000/3000)	8000 (4000/4000)	10000 (5000/5000)	12000(6000/6000)		
Number of independent MPPT inputs	2 / (1:1)					
Max. PV input voltage (V)	500					
MPPT voltage range (V)	60 ~ 400					
Start-up voltage (V)	60					
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)	40 ~ 60					
Max. charging / discharging current (A)	70	90	110	135 / 140	135 / 140	180
Max. charging / discharging power (W)	3000	4000	5000	6000	6500	8000
Force wake up battery from PV&Grid&GEN function	YES					
Grid						
Rated AC voltage (V)	230					
Rated AC frequency (Hz)	50 / 60					
Rated AC output current (A)	13	17.5	22	26.5	28.2	34.7
Rated AC output power (W)	3000	4000	5000	6000	6500	8000
Max. AC input power (W)	6000	8000	8000	9000	9000	12000
PF	0.99					
THDI	< 5%					
Max. continuous AC passthrough current (A)	40			60		
GEN						
Rated GEN voltage (V)	230					
Rated GEN frequency (Hz)	50 / 60					
Rated GEN input current (A)	13	32				52
Rated GEN input power (W)	3000	7370				12000
UPS						
Rated output power (W)	3000	4000	5000	6000	6500	8000
Rated output voltage (V)	230 / 120	230				
Rated output current (A)	13	17.5	22	26.5	28.2	34.7
Rated output frequency (Hz)	50 / 60					
Surge power, duration	6000W, 5s	8000W, 5s	10000W, 5s	12000W, 5s	13000W, 5s	16000W, 5s
Switching time	< 10ms @ Single; < 20ms @ Parallel					
Wave form	Sine wave					
Load capacity of Motor	3HP		4HP		5HP	
Overload capacity	10s@110% ~ 150 % load; 5s@150% ~ 200% load					
THDV	< 3%					
Efficiency						
MPPT efficiency	99.0%					
Max. efficiency	96.9%					
EU efficiency	96.9%					
Max. charge efficiency	97.5%					
Max. discharge efficiency	95.5%					
Protection						
Over current / voltage protection	YES					
Anti-islanding protection	YES					
AC short-circuit current protection	YES					
Grid monitoring	YES					
Residual current monitoring	YES					
AC/DC surge protection	Type II					
PV switch	YES					
Arc fault circuit interrupter	Optional					
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					
Standards & Certification						