ECO HYBRID

SNA2-EU-LT 10-14K (Single-Phase)

- Max. PVinput: 24kWwith2MPPTs
- Max. charging and discharging current: 250A
- Support up to 16 units in parallel for on/off grid
- Lite Design for Easier Installation
- Support Hybrid Working Modes
- Intelligent Operating Mode to Lower Energy Costs & Quick ROI
- Separate Gen Port for
  - Auto start-stop
  - Working with the existing grid-tied system
  - Smart load management





Model	SNA2-EU-LT 10K	SNA2-EU-LT 12K	SNA2-EU-LT 14K
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)	230	250	270
Max. charging / discharging power (W)	11000	12000	13000
Force wake up battery from PV and Grid function	YES		
Grid			
Rated AC voltage (V)	230		
AC Start-up Voltage	90		
Acceptable Input Voltage Range (V)	130 ~ 280		
Rated AC frequency (Hz)	50 / 60		
Rated AC input current (A)	100		
Rated AC input power (W)	24000		
PF	0.99		
THDI	< 5%		
Max. continuous AC passthrough current (A)	100		
GEN			
Rated GEN voltage (V)	230		
Rated GEN frequency (Hz)	50 / 60		
Rated GEN input current (A)	65		
Rated GEN input power (W)	15000		
Rated GEN current of BYPASS relays (A)	90		
UPS			
Rated output power (W)	10000	12000	14000 (with PV + Battery)
Rated output voltage (V)	230		
Rated output current (A)	43.5	52	61
Rated output frequency (Hz)	50 / 60		
Switching time (UPS)	< 10 ms		
Wave form	Sine wave		
THDV	< 3%		
Overload protection	5s@≥1.5×10K / 10s@(1.1~1.5)×10K(Only Battery)	5s@≥1.5×12K / 10s@(1.1~1.5)×12K(Only Battery)	10s@≥1.18 ×12K (With PV+ Battery)
Efficiency			
Max. MPPT efficiency	99.0%		
Max. efficiency	93.5%		
Max. charge / discharge efficiency	93.0%		
Protection			
Over current / voltage protection (Y/N)	YES		
AC Short-circuit current protection (Y/N)	YES		
Grid monitoring (Y/N)	YES		
DC / AC Surge protection	Type III		
General			
Dimensions (W × H × D)	520 × 580 × 163 mm / 20.5 × 22.8 × 6.4 in		
Weight	32.5 kg / 71.7 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	Transformer-less / Transformer		
Max. Operating Altitude (m)	2000		
Noise emission (dB)	55		
Standard & Certification			

NRS097,EN62109-1/-2