

SNA-EU 12-14K(Single-Phase)

- 2 MPPTs with 4 strings, Max. 24kW PV input
- Max. charging and discharging current: 250A
- Off-grid application for high demand with 12kW output power
- Dual AC output ports for multiple load connections
- Integrated Design with Load and Battery Breaker
- PV or AC or Generator wake up battery
- Supports up to 16 units in parallel
- Separate GEN port
 - Up to 19.2kW Gen/AC coupling input
 - Auto generator start and stop control



Model	SNA-EU 12000		SNA-EU 14000	
INPUT (PV DC)				
Max. PV input power (W)	24000 (12000/12000)			
Rated PV input voltage (V)	320			
Number of independent MPPT inputs	2/(2:2)			
PV input voltage range (V)	100~480			
MPPT voltage range (V)	120~440			
Start-up voltage (V)	100			
Max. PV input current per MPPT (A)	35/35			
Max. PV short-circuit current input per MPPT (A)	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)	250			
Max. charging / discharging power (W)	12000			
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)	50/600			
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)	12000		14000	
Rated output voltage (V)		230		
Rated output current (A)	52		60	
Rated output frequency (Hz)		50/60		
Switching time (UPS)	<10ms			
Wave form	Sine wave			
THDV	<3%			
Overload protection	5s@≥150% load /10s@110%~150% load			
Efficiency				
Max. efficiency	93.5%			
Max. charging / discharging efficiency	93.0%			
Max. MPPT efficiency	99.0%			
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 / AC Surge protection	Type III			
Battery reverse polarity protection(Y/N)	Yes			
General				
Dimensions (W*H*D mm)	530*830*150mm / 17.72*25.59*5.9 in			
Weight	43.5kg / 95.9lbs			
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			
Altitude (m)	<2000			
Noise emission (typical)	<50dB			
Standard & Certification				
CE				