

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			