

# SNA 12000

- Supports up to 6 units in parallel
- 100A passthrough current
- Backup Transfer Time <10ms
- Supports connection to half-wave loads
- Max. 24kW PV input
- Separate generator port
- Smart load prioritize necessities
- Up to 15kW generator/AC coupling input



## Specification

<b>INPUT (PV DC)</b>		<b>SNA 12000</b>
Max. PV array power (W)		24000 (12000/12000)
Reted PV input voltage (V)		320
Number of independent MPPT inputs		2
PV input voltage range (V)		100-480
MPPT voltage range (V)		120-385
Start-up voltage (V)		100
Max. PV input current per MPPT (A)		35/35
Max. PV short-circuit current input per MPPT (A)		51/51
<b>Battery</b>		
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 fuction		YES
<b>Grid</b>		
Rated AC voltage (V)		230
Acceptable Input Voltage Range (V)		90 ~ 280
Rated AC frequency (Hz)		60/50
Rated AC inptut current (A)		100
Rated AC inptut power (W)		24000
PF		0.99
THDI		<5%
Rated AC current of BYPASS relays (A)		200
<b>UPS</b>		
Rated output power (W)		12000
Rated output voltage (V)		230
Rated output current (A)		50
Rated output frequency (Hz)		50/60
Surge power. duration		2Pn. 5s
Switching time ( UPS )		<10ms@Single and Parallel
Wave form		Sine wave
THDV		3%
<b>GEN</b>		
Acceptable Input Voltage Range		230
Max. AC Input Voltage (V)		280
Max. AC Input Current (A)		63
Rated Input Frequency		50Hz/60Hz (Auto detection)
Transfer Time		<10ms@Single; <20ms@Parallel
THDV		<3%
Overload Protection		5s@≥150% load /10s@110%~150% load
<b>Efficiency</b>		
Max. efficiency		90.0%
Max. charging / discharging efficiency		90.0%
Max. MPPT efficiency		99.0%
<b>Protection</b>		
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)		NO
DC Surge protection Type III		NO
AC Surge protection Type III		YES
Battery reverse polarity protection(Y/N)		NO
RSD / AFCI monitoring(Y/N)		NO
UPS/Battery breakers integrated		NO
<b>General</b>		
Dimensions ( W*H*D mm )		TBD
Weight (kg)		TBD
Ingress protection rating		IP 20
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
<b>Standard &amp; Certification</b>		
		CE