

ECO HYBRID

Single-Phase

SNA 3-6K

- Off-grid seamless switch
- Wide PV input voltage range
- Single-phase/Unbalanced three-phase
- Supports up to 16 units in parallel
- Automatically assigns a primary unit for the parallel inverter system
- Separate generator port available



Specification

Your Reliable
Energy Solution
Partner

Input (PV DC)	SNA 3000W		SNA 4000W		SNA 5000W	SNA 6000W
Max. PV array power(W)	6000 (3000/3000)		8000 (4000/4000)		8000 (4000/4000)	9000 (4500/4500)
Rated 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)					17/17	
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)					38.4~60	
Max. charge/discharge current(A)	70/70		90/90		110/110	140/140
Max. charge/discharge power(W)	3000		4000		5000	6000
Recommend capacity of battery per inverter	>100AH		>200AH		>200AH	>200AH
Force wake up battery from PV function					YES	
Force wake up battery from Grid function					YES	
Grid						
Rated AC voltage(V)					230	
Rated AC frequency(Hz)					50/60	
Rated AC output current(A)	13.5		17.5		22	26.5
Rated AC output power(W)	3000		4000		5000	6000
Max. AC input power(W)			8000		9000	
PF					0.99 (Adjustable from 0.8 leading to 0.8 lagging)	
THDI					<5%	
Max. continuous AC passthrough current(A)					35	40
UPS						
Rated output power(W)	3000		4000		5000	6000
Rated output voltage(V)					230	
Rated output current(A)	13.5		17.5		22	26.5
Rated output frequency(Hz)					50/60	
Surge power, duration					2Pn, <2s	
Switching time					<15ms@Single/<30ms@Parallel	
Wave form					Sine wave	
THDV					3%	
Efficiency						
Max. MPPT efficiency					99.9%	
Max. efficiency					93.0%	
Max. charge efficiency					93.0%	
Max. discharge efficiency					93.0%	
Protection						
Over current/voltage protection					YES	
AC Short-circuit current protection					YES	
Grid monitoring					YES	
AC Surge protection Type III					YES	
Battery reverse polarity protection					YES	
General						
Dimensions(W*H*D)					330*505*135mm/13*19.9*5.3inch	
Weight					14.5kg/32lbs	
Ingress protection rating					IP20	
Operating environment temperature range(°C)					0~50	
Storage temperature range(°C)					-15~60	
Relative humidity					5%~95%	
Display & Communication interface					LCD+LED, RS485/Wi-Fi/CAN	
Warranty					2 years	
Cooling method					Smart Cooling	
Topology					Transformer-less	
Altitude					<2000m	
Noise emission(typical)					<50dB	
Standards & Certification						
IEC 62109-1, IEC 61000, IEC62040/EN62040, IEC62109, NRS 097-2-1						