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 (A d j u stable 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	2years			
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				