

HYBRID

SNA 3-6.5K (Single-Phase IP66)

- 2 MPPTs with Max. PV input of 12kW
- IP66 protection rating: Ensures reliable dust and water resistance
- Parallel operation: Supports up to 16 units for scalable energy solutions
- Max. charge/discharge current: 135/140A
- Seamless off-grid switching: Automatic transition for uninterrupted power
- Dedicated port: Supports generator or smart load management for enhanced system stability
- Smart monitoring: Remote configuration and real-time performance tracking



Model	SNA 3K	SNA 4K	SNA 5K	SNA 6K	SNA 6.5K
Input (PV DC)					
Max. PV array power (W)	7500(3750/3750)	10000(5000/5000)	12500(6250/6250)	15000(7500/7500)	
Max. PV input power (W)	6000(3000/3000)	8000(4000/4000)	10000(5000/5000)	12000(6000/6000)	
Number of independent MPPT inputs	2				
Max. PV input voltage (V)	500				
MPPT voltage range (V)	80 ~ 400				
Start-up voltage (V)	80				
Max. PV input current per MPPT (A)	20 / 20				
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)	40 ~ 60				
Max. charging/discharging current (A)	70	90	110	135 / 140	135 / 140
Max. charging/discharging power (W)	3000	4000	5000	6000	6500
Force wake up battery from PV function	YES				
Force wake up battery from Grid function	YES				
Force wake up battery from GEN fuction	YES				
Grid					
Rated AC voltage (V)	230				
Rated AC frequency (Hz)	50 / 60				
Rated AC output current (A)	13	17.5	22	26.5	28.2
Rated AC output power (W)	3000	4000	5000	6000	6500
Max. AC input power (W)	6000	8000	8000	9000	9000
PF	0.99				
THDI	< 5%				
Max. continuous AC passthrough current (A)	40				60
GEN					
Rated GEN voltage (V)	230				
Rated GEN frequency (Hz)	50 / 60				
Rated GEN input current (A)	13	32			
Rated GEN input power (W)	3000	7370			
UPS					
Rated output power (W)	3000	4000	5000	6000	6500
Rated output voltage (V)	230 / 120	230			
Rated output current (A)	13	17.5	22	26.5	28.2
Rated output frequency (Hz)	50 / 60				
Surge power, duration	6000W, 5s	8000W, 5s	10000W, 5s	12000W, 5s	13000W, 5s
Switching time	< 10ms @ Single; < 20ms @ Parallel				
Wave form	Sine wave				
Load Capacity of Motor	3HP		4HP	5HP	
OverLoad Capacity	10s@110% ~ 150 % load; 5s@150% ~ 200% load				
THDV	<3%				
Efficiency					
MPPT efficiency	99.0%				
Max. efficiency	96.0%				
Max. charge efficiency	96.0%				
Max. discharge efficiency	94.0%				
Protection					
PV reverse polarity protection	YES				
Over current/voltage protection	YES				
Anti-islanding protection	YES				
AC Short-circuit current protection	YES				
Grid monitoring	YES				
Ground fault monitoring	YES				
AC/DC surge protection	Type II				
PV switch	YES				
General					
Dimensions (W × H × D)	384 × 434 × 187 mm / 15.12 × 17.09 × 7.36 in				
Weight	16.95 kg / 37.38 lbs				
Ingress protection rating	IP66				
Operating environment temperature range (°C)	-25 ~ 60, >45°C derating				
Storage temperature range (°C)	-15 ~ 60				
Relative humidity	5% ~ 95%				
Display & Communication interface	LCD + LED, RS485 / Wi-Fi / CAN				
Warranty	5 years				
Cooling method	Smart Cooling				
Topology on AC side	Transformerless				
Topology on Battery side	Transformer				
Max. Operating Altitude (m)	4000, >2000 Power derating				
Noise emission (dB)	40				
Standards & Certification					
EN61000/EN62109-1/-2, NRS097, MEA/PEA					