



POWERHOUSE

RELIABLE POWER SOLUTIONS



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Product features:



Supports automatic battery switching;



Parallel available, intelligent BMS management;



Support diesel generator input source;



Input power source priority can be set by users;



Compatible with lead-acid and lithium-ion batteries;



Battery reverse connection protection, anti-power control function;



residential Energy Storage inverters

Technical Data	M-5000-SC	M-6000-SC	M-7000-SC	M-8000-SC
PV Input Data				
MAX.DC Input Power	7.5kW	9kw	12kw	12KW
NO.MPPT Tracker	4			
MPPT Range	120 - 500V			
MAX.DC Input Voltage	500V			
MAX.Input Current	12A			
Battery Input Data				
Nominal voltage (Vdc)	48V	48V	48V	48V
MAX.Charging/Discharging Current	120A/120A	135A/135A	190A/190A	190A/190A
Battery Voltage Range	40-60V			
Battery Type	Lithium or Lead Acid Battery			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
AC Output Data (On-Grid)				
Nominal output power Output to Grid	5KVA	6KVA	7.6KVA	8KVA
MAX. Apparent Power Output to Grid	5.5KVA	6.6KVA	8.4KVA	8.8KVA
Nominal Output Voltage	220 230V 240V			
Output Frequency	50/60Hz 45 to 54.9Hz / 55 to 65Hz			
Nominal AC Current Output to Grid	21.7A*	26A	33A	34.8A
Max.AC Current Output to Grid	24A	28.8A	36.5A	38.3A
Max.AC Current from Grid	35A	35A	50A	50A
Output Power Factor	0.8leading...0.8lagging			
Output THDI	< 2%			
AC Output Data (Back-Up)				
Nominal. Apparent Power Output	5KVA	6KVA	7.6KVA	8KVA
MAX. Apparent Power Output	5.5KVA	6.6KVA	8.4KVA	8.8KVA
Nominal Output Voltage L-N	220 230V 240V			
Nominal Output Frequency	50Hz/60Hz			
Output THDU	< 2%			
Efficiency				
Europe Efficiency	≥97.8%			
MAX. Battery to Load Efficiency	≥97.2%			
Protection				
Grounding detection	YES			
Arc Fault Protection	YES			
Island Protection	YES			
Battery reverse Polarity	YES			
Insulation Resistor Detection	YES			
Residual Current Monitoring Unit	YES			
Output Over Current Protection	YES			
Back-up Output Short Protection	YES			
Terminal temperature detection	YES			
Output Over Voltage Protection	YES			
Output Under Voltage Protection	YES			
General Data				
Operating Temperature Range	-25 ~ +60°C			
Relative Humidity	0-95%			
Operating Altitude	0~4000m derating above 2000m			
Ingress Protection	IP65			
Weight	32kg			
Size (Width*Height*Depth)	430mm x 710mm x 220mm			
Cooling	Natural Convection			
Noise emission	<38dB			
Display	LCD			
Communication With BMS/Meter/EMS	RS485 CAN			
Supported communication interface	RS485, Wi-Fi, 4G(optional)			
Self-consumption at night	< 2.5 W (with battery enabling < 5 W)			