

Inverter Parameters
MQK-25k~50k



Model	MQK- 25	MQK- 30	MQK- 40	MQK- 50
DC Input				
Max. PV Array Power [Wp]@STC	37500	45000	60000	75000
Max. DC Voltage [V]	1000			
MPPT Voltage Range [V]	200~850			
Rated DC Voltage [V]	620			
Start Voltage [V]	135			
Max. DC Input Current [A]	4*30			
Max. DC Short Circuit Current [A]	4*40			
Number of MPPT	4			
Number of Strings per MPPT	2			
Battery Parameters				
Battery Type	LiFePO4			
Battery Voltage Range [V]	135 ~ 750			
Max. Charging/Discharging Current [A]	100-100			
AC Parameters [On-grid]				
Rated AC Power [W]	25000	30000	40000	50000
Maximum output apparent power [VA]	27500	33000	44000	55000
Maximum input apparent power [VA]	30000	36000	48000	60000
Maximum battery charging power [W]	25000	30000	40000	50000
Rated Voltage [V]	3L/N/PE; 220/380V;230/400V;240/415V			
On-grid Frequency [Hz]	50/60			
Maximum current output [A]	42	50	66	83
Power Factor	0.8 leading ~ 0.8 lagging			
Total Harmonic Distortion [THDi]	<3%@rated power			
AC Parameters [Back-up]				
Rated AC Power [W]	25000	30000	40000	50000
Maximum output apparent power [VA]	27500	33000	44000	55000
Maximum current output [A]	42	50	66	83
UPS switching time	<20ms			
Rated output voltage [V]	3L/N/PE; 220/380V;230/400V;240/415V			
Rated Ac Frequency [Hz]	50/60			
Output THDv (@ Liner Load)	<3%			
AC Parameters [Generator]				
Maximum input apparent power[VA]	30000	36000	48000	60000
Maximum battery charging power[W]	25000	30000	40000	50000
Rated output voltage[V]	3L/N/PE; 220/380V;230/400V;240/415V			
Rated Ac Frequency [Hz]	50/60			
Efficiency				
Maximum PV conversion efficiency	98.8%			
Euro Efficiency	98.3%			
Protection	Protection			
Battery input reverse connection protection	Integrated			
Insulation resistance protection	Integrated			
Surge protection	Integrated			
Over-temperature protection	Integrated			
Anti-islanding Protection	Integrated			
Residual current protection	Integrated			
AC over-voltage protection	Integrated			
Overload protection	Integrated			
AC short-circuit protection	Integrated			

Inverter Parameters
MQK-25k~50k



Model	MQK- 25	MQK- 30	MQK- 40	MQK- 50
General Parameters				
Over voltage category	PV: II ; Main: III			
Dimensions (mm)	800×620×300			
Weight (KG)	72.0			
Protection degree	IP65			
Standby self-consumption (W)	<15			
Topology	Transformerless			
Operating Temperature Range (°C)	-30~60			
Relative Humidity (%)	0~100			
Operating Altitude (m)	3000 (>3000m derating)			
Cooling	Smart fan			
Noise Level (dB)	<50			
Display	OLED & LED			
Communication	CAN, RS485, WiFi/LAN (Optional)			

Battery Parameters
63.2kWh~105.4kWh

Model	CB2-63.2-HV5	CB2-84.3-HV5	CB2-105.4-HV5
Rated Energy [kWh]	63.2	84.3	105.4
Usable Energy [kWh]	56.9	75.9	94.9
Rated Capacity [Ah]	206	206	206
No. of Modules	6	8	10
Nominal Voltage [V]	307.2	409.6	512
Voltage Range [V]	240~350.4	320~467.2	400~584
Charge/Discharge Current [A]	100	100	100
Rated Power [kW]	30	40	50
Weight [kg]	1030	1170	1310
Dimension [mm]	960*1500*2000 (1185*1500*2000-include air condition)		
Communication	CAN		
Operating Temperature Range [℃]	-30~50		
Cooling Method	Air Conditioner		
Relative Humidity	5~95% (non-condensing)		
Altitude [m]	2000		
Ingress Protection	IP54		
Mounting	Ground-Mounted		
Battery Module			
Rated Energy [kWh]	10.547		
Battery Module Serial Cell Quantity (pcs)	16		
Weight [kg]	71		
Dimension [mm]	607*400*246		
Applicable Standard	IEC62619-2017, UN38.3, IEC61000-6-2/4, IEC62477		