

Module Products

AC/DC Module



Introduction

The AC / DC module has three modes: off grid, grid connected and rectifier. It can switch between the three modes intelligently, and has the functions of reactive power compensation and harmonic compensation. Advanced control algorithm is used to realize multi parallel modules, which has excellent load adaptability and power grid adaptability.

Characteristics



Efficient

- AC and DC power supply, support black start
- Bidirectional energy flow,forward and reverse seamless switching, switching time ≤30ms



Convenient

- Modular design, easy to maintain and expand
- Three phase 100% unbalanced, support single phase load access, flexible load configuration



Security

- Wide working temperature range: -30 °C ~ 60 °C
- High reliable protection performance, high and low temperature resistance, humidity, salt spray and other harsh environment



Intelligence

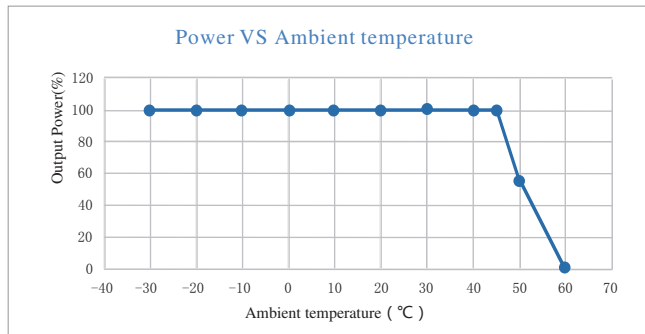
- Support local EMS, intelligent control
- Intelligent fan adjustment function reduces power consumption and noise

Technical characteristics

Model	MA1000K30	MA1000K60
DC parameters		
Rated Output Power 【kW】	30	60
Input startup Voltage 【Vd.c】	680	680
Rated Input DC Voltage 【Vd.c】	800	800
Min Input DC Operating Voltage Range 【Vd.c】	680 ~ 1000	680 ~ 1000
Rated Output Current 【Ad.c】	44	88
AC input parameters		
Maximum input power 【kW】	30	60
Rated input voltage 【Va.c】	400 , 3P4W+PE	400 , 3P4W+PE
Max continuous input current 【Aa.c】	43	86
Rated input frequency 【Hz】	50/60	50/60
Power factor	0.8cap~0.8ind	0.8cap~0.8ind
AC output parameters		
Rated output voltage 【Va.c】	400 , 3P+N+PE	400 , 3P+N+PE
Rated output frequency 【Hz】	50/60	50/60
Max continuous output current 【Aa.c】	43	86
Rated output power 【kVA】	30	60
Max continuous output active power 【kW】	30	60
unbalanced loads	100%	100%
Overload capacity	1.1 10min; 1.2 1min	1.1 10min; 1.2 1min
General		
Operating temperature range 【°C】	-30~+60 (> 45°Cderating)	-30~+60 (> 45°Cderating)
Ingress protection	IP20	IP20
Operating altitude range 【m】	3000	3000
Maximum efficiency	98.5%	98.5%
Input Start-up Voltage (V)	AC400V/DC680V	AC400V/DC680V
Overvoltage class	AC / DC	AC / DC
Class of pollution degree		
Active anti-islanding method	AFD	AFD
Size (W*D*H) 【mm】	490*620*130	490*620*130
Weight 【kg】	21	28
Inverter Topology	Transformerless、TNPC	Transformerless、TNPC
Environment Relative Humidity	<95%RH (No condensation)	<95%RH (No condensation)
Country of Manufacturer	Made in china	Made in china
Warranty	3 years	3 years
Communication		
BMS communication interface	CAN、RS485	CAN、RS485
EMS communication interface	Ethernet , RS485	Ethernet , RS485
EMS communication protocol	Modbus TCP/ModbusRTU	Modbus TCP/ModbusRTU
General IO	3-way DI、2-way DO	2-way DI、2-way DO

Output characteristic curve

- Output power VS Ambient temperature curve



- Output Power VS Output Voltage

