

Three Phase Photovoltaic Inverter(80-110K)



Maximum efficiency of 98.7%, ultra-low starting voltage, ultra wide voltage range



Support intelligent detection of DC arc pulling (optional)



Supports 1.5 times DC super matching, compatible with up to 20A high current components



Possess adaptability to weak current networks



High protection level IP66, intelligent air cooling, low noise



One frequency modulation, multiple operating modes such as P-F, Q-U, etc



Product Model	MDS-80K3P-08-CN	MDS-100K3P-10-CN	MDS-110K3P-10-CN
DC input			
Maximum allowable input power	120kW	150kW	165kW
Maximum input voltage		1100V	
Starting voltage		180V	
Rated input voltage		580V	
MPPT voltage range		200V~1000V	
Number of MPPT	8	8	8
Maximum number of PV string	2	2	2
Maximum input current	40A*4+32A*4	40A*4+32A*4	40A*4+32A*4
Maximum short circuit current	50A*8	50A*8	50A*8
AC output			
Rated output power	80kW	100kW	110kW
Maximum apparent power	88kVA	110kVA	121kVA
Maximum output current	3*128A	3*160A	3*176A
Rated grid voltage		3/N/PE,400V	
Voltage range of power grid		300V ~ 480V	
Rated grid frequency		50Hz	
Grid frequency range		45Hz ~ 55Hz	
Power factor		>0.99 (0.8 超前 ~ 0.8 滞后)	
THDi		<3%	
DC Component		<0.5%	
Efficiency			
Maximum efficiency		98.7%	
Efficiency in Europe		98.1%	
Efficiency in China		98.1%	
Safety protection			
DC reverse protection		Available	
Communication short circuit protection		Available	
AC output overcurrent		Available	
Over Voltage Protection		Available	
Insulation impedance protection		Available	
Residual current (RCD)		Available	
Surge protection		Level II lightning protection	
Island protection		Available	
Temperature protection		Available	
DC Switching		Available	
String Detection		Standard	
Integrated AFCI Protection		Optional	
PID repair		Optional	
Basic parameters			
Dimensions		1200mm*535mm*275mm	
Weight	65kg	73kg	82kg
Isolation Method		transformerless	
Self-consumption at night		IP66	
Temperature		< 1W	
Humidity		-30℃~60℃	
Noise level		0~100%	
Cooling method		< 70dB	
Maximum working altitude		4000m(>2000m derating)	
Display		LED	
Communication method (standard)		RS485	
Communication method (optional)		4G/WIFI/PLC	
Conforms to standard		CNCA/CTS0002-2014,NB/T 32004-2018	