

SINGLE PHASE / THREE PHASE BRIDGE RECTIFIER MODULE

(MDQ, MDS)



Features

- Electrical insulation between the chip and the backplane with insulation voltage 2500VAC
- International standard package
- "Vacuum + hydrogenation protection" welding technology
- Low forward voltage drop
- Maximum operating junction temperature up to 150 °C
- Compact dimensions and low weight

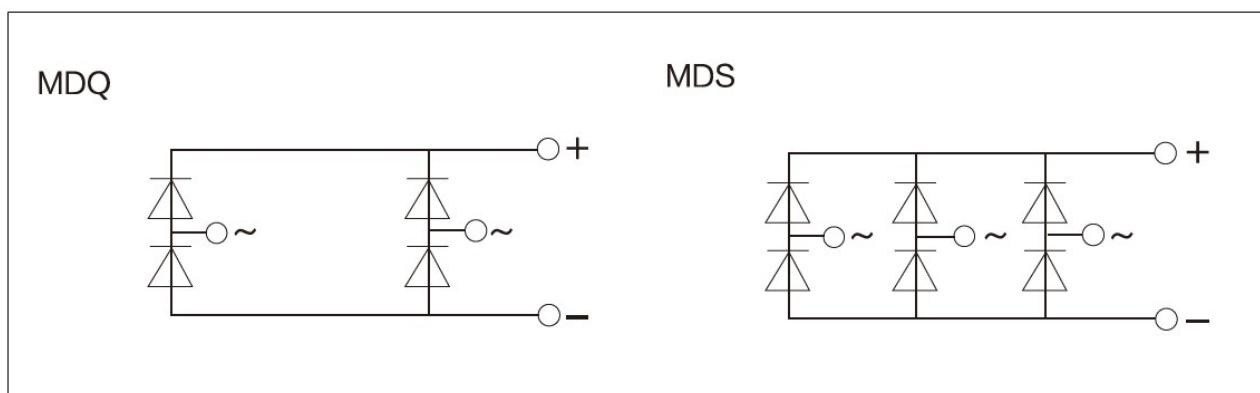
Product description

- $V_{RSM}=V_{RRM}+200V$
- In addition to V_{FM} and V_{ISO} , the other parameters in the table are the test values under T_{jm} .

Typical application

- DC power supply of the instruments and equipment
- Input rectification power supply of the PWM inverter
- Excitation power supply of the DC motor
- Input rectification system of switching power supply
- Soft start capacitor charging system
- Electrical drive and auxiliary current
- Inverter welder
- DC power charging system

Module model and circuit diagram



Product Specifications

SINGLE PHAS BRIDGE RECTIFIER MODULE										
Model	DC Output Current	Average Forward Input Current	Cover Temperature	Maximum Repetitive Peak Reverse Voltage	Maximum Repetitive Peak Reverse Current	Maximum Peak On-state Voltage and Current		Maximum Junction Temperature	Isolation Voltage	Overall Dimensions
	I_d	$I_{F(AV)}$	T_C	V_{RRM}	I_{RRM}	V_{TM}	I_{TM}	T_{jm}	V_{isol}	
	A	A	°C	V	mA	V	A	°C	V(AC)	
MDQ 30	30	10	100	600-2000	8	1.45	30	150	2500	102A
MDQ 60	60	20	100	600-2000	8	1.45	60	150	2500	102A
MDQ 100	100	35	100	600-2000	10	1.45	100	150	2500	102A
MDQ 150	150	50	100	600-2000	10	1.50	150	150	2500	103A, 103A-1
MDQ 200	200	68	100	600-2000	10	1.50	200	150	2500	103A, 103A-1
MDQ 300	300	100	100	600-2000	10	1.50	300	150	2500	104A
MDQ 400	400	135	100	600-2000	10	1.50	400	150	2500	104A
MDQ 500	500	168	100	600-2000	10	1.50	500	150	2500	105A
MDQ 600	600	200	100	600-2000	10	1.50	600	150	2500	106A
THREE PHASE BRIDGE RECTIFIER MODULE										
Model	DC Output Current	Average Forward Input Current	Cover Temperature	Maximum Repetitive Peak Reverse Voltage	Maximum Repetitive Peak Reverse Current	Maximum Peak On-state Voltage and Current		Maximum Junction Temperature	Isolation Voltage	Overall Dimensions
	I_d	$I_{F(AV)}$	T_C	V_{RRM}	I_{RRM}	V_{TM}	I_{TM}	T_{jm}	V_{isol}	
	A	A	°C	V	mA	V	A	°C	V(AC)	
MDS 30	30	10	100	600-2000	8	1.45	30	150	2500	102A
MDS 60	60	20	100	600-2000	8	1.45	60	150	2500	102A
MDS 100	100	35	100	600-2000	10	1.45	100	150	2500	102A
MDS 150	150	50	100	600-2000	10	1.50	150	150	2500	103A, 103A-1
MDS 200	200	68	100	600-2000	10	1.50	200	150	2500	103A, 103A-1
MDS 300	300	100	100	600-2000	10	1.50	300	150	2500	104A
MDS 400	400	135	100	600-2000	10	1.50	400	150	2500	104A
MDS 500	500	168	100	600-2000	10	1.50	500	150	2500	105A
MDS 600	600	200	100	600-2000	10	1.50	600	150	2500	106A

Note:

Single phase bridge rectifier module (MDQ); the domestic models corresponding to the imported models SKCH, DF, VHF etc., are subject to the circuit diagram.

Three phase bridge rectifier module (MDS); the domestic models corresponding to the imported models 6RI, RM, DF etc., are subject to the circuit diagram.