

6 POWER MODULES

TRANSISTOR MODULES

● Transistor modules (Single arm)

Type No.	Max. ratings						Electrical characteristics					Connection form	Connections
	Transistor section					Diode section	Transistor section				Diode section		
	V_{CEX} (sus) (V)	I_C (A)	I_B (A)	P_C (W)	T_J (°C)	$-I_C$ (A)	h_{FE}	V_{CE} (sat) (V)	t_{on} (μ s)	t_{off} (μ s)	$-V_{CEO}$ (V)		
QM5HG-24	1200	5	3	100	150	—	5	1.0	1.0	4.8	—	A	
QM10HB-2H	1000	10	2	100	150	—	5	1.0	1.5	9	—	A	
QM30HQ-24	1200	30	6	310	150	—	5	1.0	1.5	9	—	A	
QM10HA-HB	600	10	1	83	150	10	250	2.0	1.5	12	1.5	B	
QM15HA-H	600	15	0.9	100	150	15	50	2.0	1.5	10	1.5	B	
QM20HA-HB	600	20	1	160	150	20	250	2.0	1.5	14	1.5	B	
QM30HA-H	600	30	1.8	250	150	30	75	2.0	1.5	15	1.85	B	
QM30HA-HB	600	30	1.8	250	150	30	750	2.5	2.0	11	1.8	C	
QM50HA-H	600	50	3	310	150	50	75	2.0	1.5	15	1.75	B	
QM50HA-HB	600	50	3	310	150	50	750	2.5	2.0	11	1.8	C	
QM75HA-H	600	75	4.5	350	150	75	75	2.0	2.5	15	1.85	B	
QM100HY-H	600	100	6	620	150	100	75	2.0	2.0	15	1.75	B	
QM150HY-H	600	150	9	690	150	150	75	2.0	2.5	15	1.85	B	
QM200HA-HK	600	200	12	1250	150	200	75	2.0	2.0	15	1.75	B	
QM300HA-HB	600	300	18	1380	150	300	750	2.5	2.0	11	1.8	C	
QM400HA-H	600	400	10	1500	150	400	750	2.5	3.0	13.5	1.8	D	
QM500HA-H	600	500	10	1780	150	500	750	2.5	3.0	13.5	1.8	D	
QM30HY-2H	1000	30	2	310	150	30	75	2.5	2.5	18	1.8	C	
QM50HY-2H	1000	50	3	400	150	50	75	2.5	2.5	18	1.8	D	
QM100HY-2H	1000	100	6	800	150	100	75	2.5	3.0	18	1.8	D	
QM150HY-2H	1000	150	8	1000	150	150	75	2.5	3.0	18	1.8	D	
QM200HA-2H	1000	200	10	1560	150	200	75	2.5	3.0	18	1.8	D	
QM300HA-H	600	300	18	1380	150	300	75	2	2.5	3	1.85		
QM300HA-2H	1000	300	16	1980	150	300	75	2.5	3.0	18	1.8		D
QM300HA-2HB	1000	300	16	1980	150	300	750	4.0	2.5	18	1.8	F	
QM400HA-2H	1000	400	20	3120	150	400	75	2.5	3.0	19	1.8	D	
QM400HA-2HB	1000	400	20	3120	150	400	750	4.0	2.5	18	1.8	F	
QM600HA-2H	1000	600	30	3500	150	600	75	2.5	3.0	18	1.8	D	
QM600HA-2HB	1000	600	30	3500	150	600	750	4.0	2.5	18	1.8	F	
QM800HA-2HB	1000	800	40	5300	150	800	750	4.0	2.5	25	1.8	F	
QM1000HA-2HB	1000	1000	50	7000	150	1000	750	4.0	2.5	27	1.8	F	
QM200HA-24	1200	200	10	1560	150	200	75	3.0	3.0	18	1.8	D	
QM300HA-24	1200	300	16	1980	150	300	75	3.0	3.0	18	1.8	D	
QM300HA-24B	1200	300	16	1980	150	300	750	4.0	2.5	18	1.8	F	
QM400HA-24	1200	400	20	3120	150	400	75	3.0	3.0	21	1.8	D	
QM400HA-24B	1200	400	20	3120	150	400	750	4.0	2.5	18	1.8	F	
QM600HA-24	1200	600	30	3500	150	600	75	3.0	3.0	18	1.8	D	
QM600HA-24B	1200	600	30	3500	150	600	750	4.0	2.5	18	1.8	F	
QM800HA-24B	1000	800	40	5300	150	800	750	4.0	2.5	25	1.8	F	
QM1000HA-24B	1200	1000	50	7000	150	1000	750	4.0	2.5	27	1.8	F	
QM100HC-M	350	100	3	420	150	100	100	2.0	2.0	13	1.5	B	
QM200HC-M	350	200	6	830	150	200	100	2.0	2.0	13	1.5	B	
QM300HC-M	350	300	10	1250	150	300	100	2.0	2.0	13	1.85	B	
QM600HD-M	350	600	15	2080	150	—	500	2.5	3.0	18	—	E	

● Transistor modules (Single arm induction heater cooker)

Type No.	Max. ratings						Electrical characteristics					Connections
	Transistor section					Diode section	Transistor section				Diode section	
	V_{CBC} (V)	I_C (A)	I_B (A)	P_C (W)	T_J (°C)	$-I_C$ (A)	h_{FE}	V_{CE} (sat) (V)	t_{on} (μ s)	t_{off} (μ s)	$-V_{CEO}$ (V)	
QM30HC-2H	1600	30	5	310	150	30	75	2.5	4.0	8.0	1.5	Non-insulated type

POWER DEVICES