Product Feature

1. Wide input range (90-528VAC, 100-745VDC)
2. 51.0*25.5*15.5mm compact size
3. No load power consumption<0.1W
4. Protection type: short circuit/over load/over voltage
5. Operating temperature range: -40℃ to +85℃
6. 4000V isolation voltage
7. 100% high temperature burn-in and function test

RoHS CE 3 years Warranty

Selection Guide

Part No.	Input Voltage (VAC)	Out Power (W)	Out Voltage (VDC)	Out Current (mA)MAX	Full Load Efficiency %	CapLoad (μF) Max.
QM05-26B03R2	90-528VAC 100-745VDC	3.3	3.3	1000	74	10000
QM05-26B05R2		5	5	1000	72	10000
QM05-26B09R2		5	9	555	74	5000
QM05-26B12R2		5	12	416	74	3000
QM05-26B15R2		5	15	333	74	2000
QM05-26B24R2		5	24	208	78	1000

Specifications

Items		
OUTPUT	Voltage Tolerance	±2.0%
	Line Regulation	±1.0%
	Load Regulation	±1.0%
	Setup, Rise Time (Typ.)	1500ms, 50ms/380VAC at full load

	Hold Up Time (Typ.)	30ms/380VAC at full load				
	Ripple & Noise (Max.) (Note 2.)	100mV				
INPUT	Voltage Range	90-528VAC 100-745VDC				
	Frequency Range	47-440Hz				
	Current (Typ.)	450mA/380VAC				
	Inrush Current (Typ.)	Cold boot 30A/380VAC				
	Leakage Current (Typ.)	<0.1mA/380VAC/50Hz				
PROTECTION	Over Load	≥110% load, recovers automatically after fault condition is removed				
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed				
	Over Voltage (Note 4.)	Output voltage offor clamp				
		Voltage	3.3/5VDC	9VDC	12VDC	15VDC	24VDC
		Range	≤7.5VDC	≤15VDC	≤16VDC	≤20VDC	≤30VDC
ENVIRONMENT	Working Temp.	-40°C to +85°C (Refer to "Derating curve")				
	Working Humidity	85%RH max				
	MTBF	300K hrs min. MIL-HDBK-217F (25°C)				
	Storage Temp., Humidity	-40°C to +85°C, 10-95%RH				
	Temp. Coefficient	0.03%/ (0-50°C)				
	Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes				

EMC Specifications

EMI	CE	CISPR32/EN55032 CLASS B	
	RE	CISPR32/EN55032 CLASS B	
EMS	RS	IEC/EN61000-4-3 10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4 ±4KV	perf. Criteria B
	Surge	IEC/EN61000-4-5 line to line ±2KV	perf. Criteria B
	CS	IEC/EN61000-4-6 10Vr.m.s	perf. Criteria A
	ESD	IEC/EN61000-4-2 Contact ±8KV/±15KV	perf. Criteria B

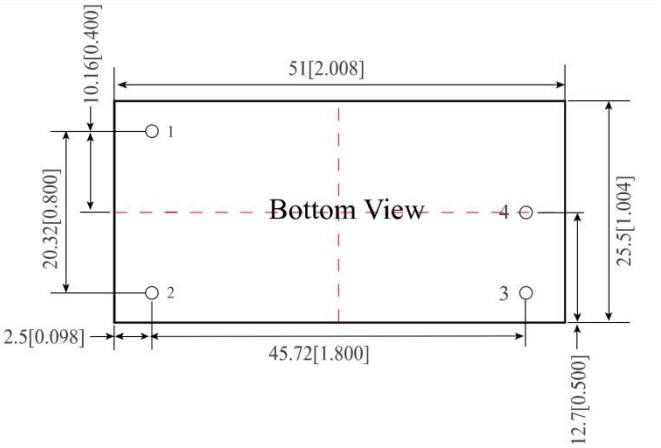
Mechanical Specification

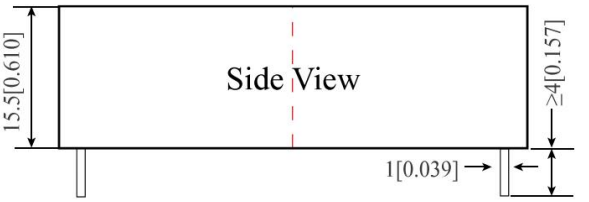
Package Dimensions	51 x 25.5 x 15.5mm
Weight	30g（Typ.）19.45kg/Carton
Package	580PCS/Carton
Carton Size	360*300*250mm

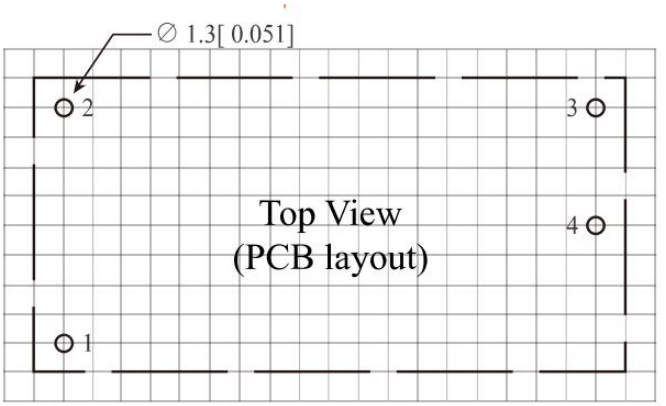
EMC Specifications

EMI	CE	CISPR32/EN55032 CLASS B	
	RE	CISPR32/EN55032 CLASS B	
EMS	RS	IEC/EN61000-4-3 10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4 ±4KV	perf. Criteria B
	Surge	IEC/EN61000-4-5 line to line ±1KV	perf. Criteria B
		IEC/EN61000-4-5 line to line ±2KV（application circuit 2）	perf. Criteria B
	CS	IEC/EN61000-4-6 10Vr.m.s	perf. Criteria A
	ESD	IEC/EN61000-4-2 Contact ±6KV/±8KV	perf. Criteria B

Dimension and Function



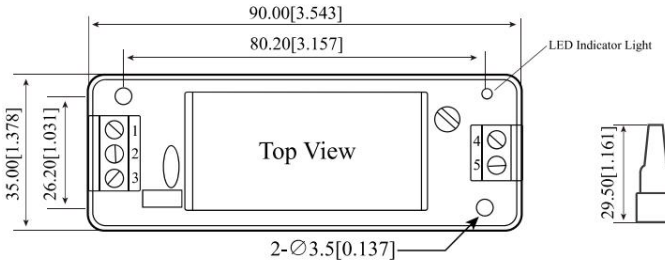


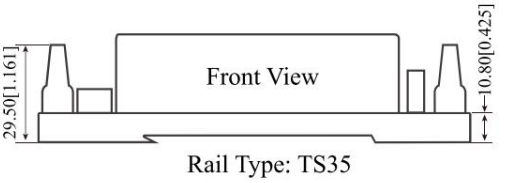


Note: Grid Spacing 2.54 * 2.54mm

Pin	Function
1	AC(N)
2	AC(L)
3	+Vo
4	-Vo

PCB mounting style/Rail-type package style



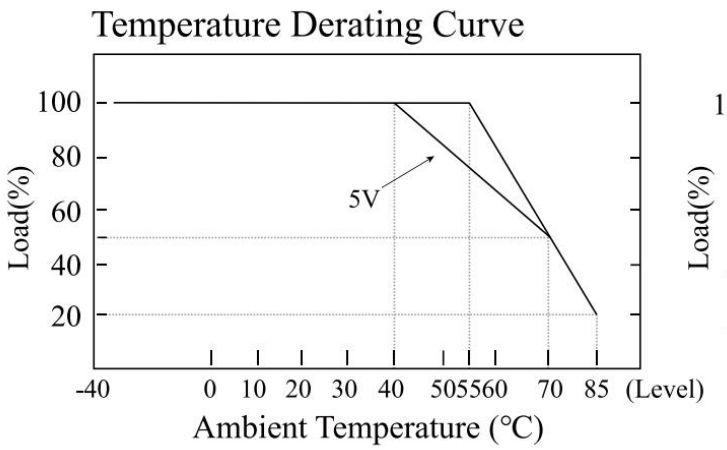


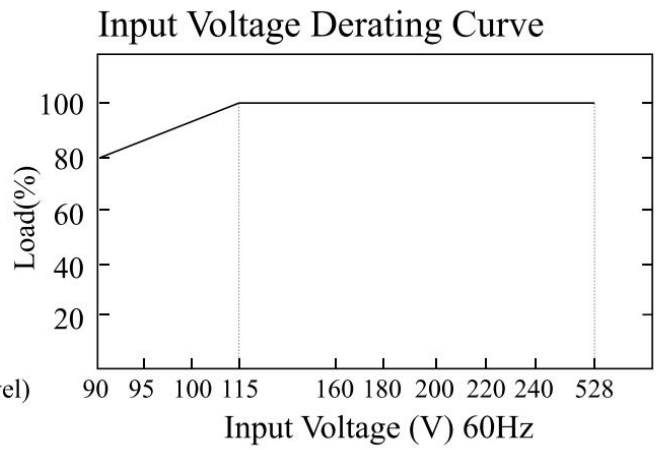
Rail Type: TS35

Pin	Function
1	AC(N)
2	No Pin
3	AC(L)
4	+Vo
5	-Vo

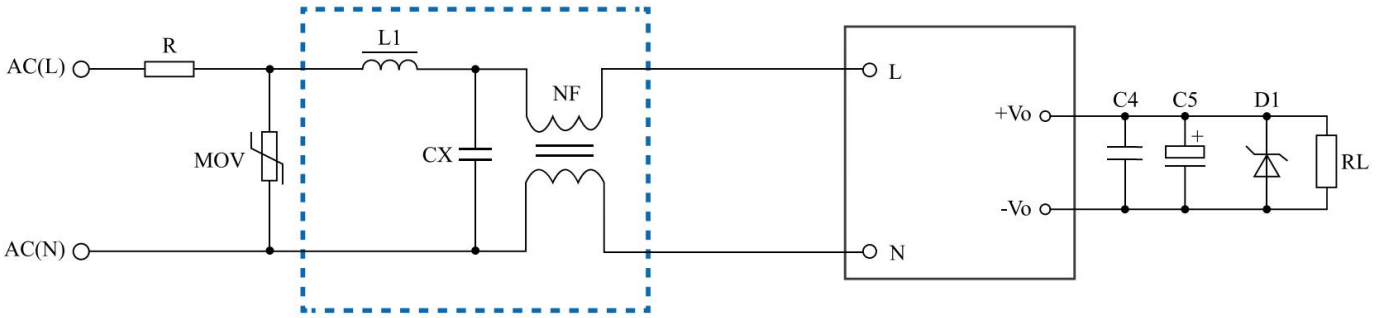
NOTE: Unit size: mm[inch] Terminal tolerance: ±0.1mm Unmarked tolerances: ±0.5mm

Derating Curve





Type Application



NOTE:

1. Output filter capacitor C5 is electrolytic capacitor. It is recommended to use high-frequency low-resistance electrolytic capacitor. Refer to technical specifications provided by manufacturers for capacity and current. C4 is to remove high frequency noise.

2. The dotted box in the figure shows the EMC filter connected to meet the higher EMC requirements. It can be omitted in general applications.

Our company has formed a filter with L1, CX and NF in the dashed box for customers to use. The model is FP01.

List Of Components

ITEM	MOV	R	NF	L1	CX	C4	C5	D1
QM05-26B03R2	Varistors 14D821K	Safety R 10Ω/1W	Common mode 30mH/0.5A	1mH/0.5A	104K/600V	104K/50V	470uF/16V	P6KE7.5A
QM05-26B05R2							470uF/16V	P6KE7.5A
QM05-26B09R2							150uF/16V	P6KE15A
QM05-26B12R2							120uF/16V	P6KE16A
QM05-26B15R2							120uF/25V	P6KE20A
QM05-26B24R2							100uF/35V	P6KE30A

Note：

1. The input voltage cannot exceed the specified range value, otherwise permanent and irreparable damage may be caused;
2. Unless otherwise specified, the parameters in this datasheet were measured at 25℃, humidity 40%~75%, input nominal voltage and output pure resistance mode under full load;
3. All index test methods are based on our company's enterprise standards.