

Product Feature

1. Wide input range (176-528VAC, 248-745VDC)
2. 54.5*29.2*23.6mm compact size
3. No load power consumption<0.5W
4. Protection type: short circuit/over load/over voltage
5. Operating temperature range: -40°C to +85°C
6. 4000V isolation voltage
7. 100% high temperature burn-in and function test



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.
QM15-26B05	176-528VAC 248-745VDC	15	5	3000	75	12000
QM15-26B09		15	9	1670	75	6000
QM15-26B12		15	12	1250	76	4000
QM15-26B15		15	15	1000	79	2000
QM15-26B24		15	24	625	82	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 (TYPE.)	50mV

INPUT	Voltage Range	176-528VAC 248-745VDC					
	Frequency Range	47-440Hz					
	Current (Typ.)	150mA/380VAC					
	Inrush Current (Typ.)	Cold boot 30A/380VAC					
	Leakage Current (Typ.)	<80μA/380VAC					
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	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

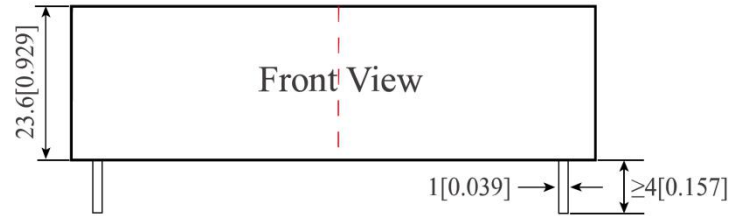
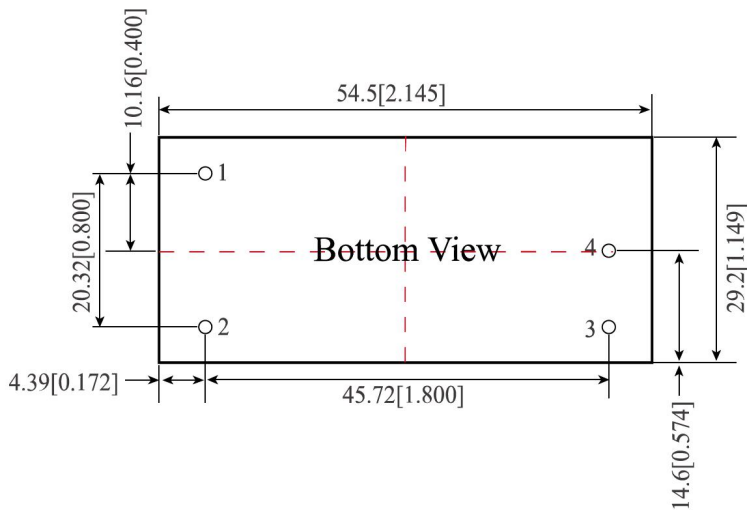
Mechanical Specification

Package Dimensions	54.5*29.2*23.6mm
Weight	57g (Typ.) 11kg/Carton
Package	210PCS/Carton
Carton Size	360*300*250mm

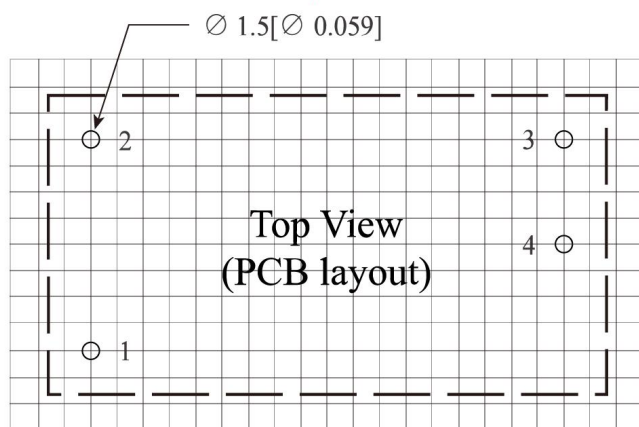
EMC Specifications

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

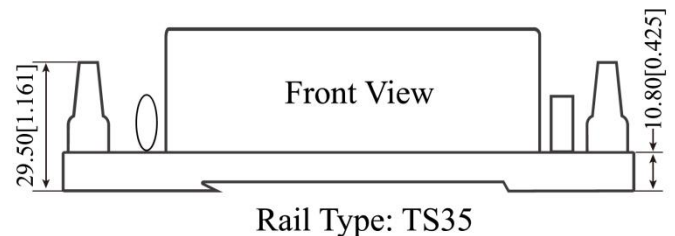
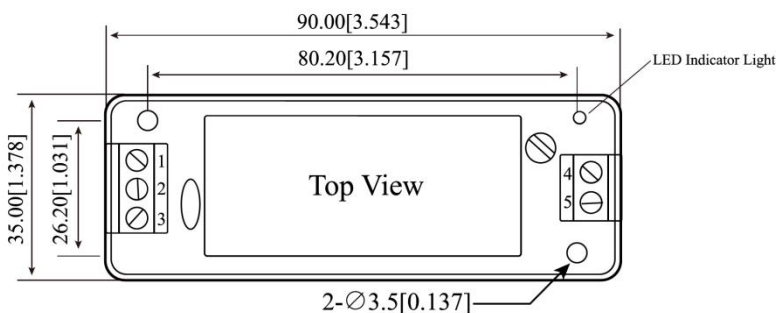


Third Angle Projection



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

Note: Grid Spacing 2.54 * 2.54mm



Rail Type: TS35

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

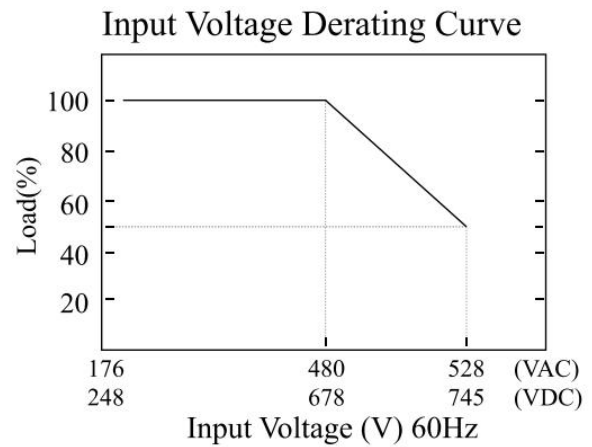
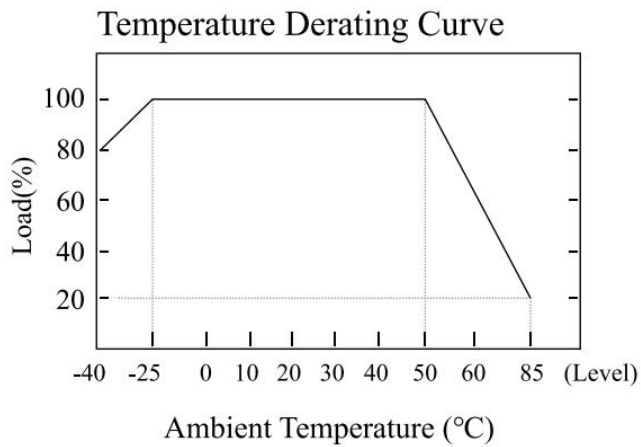
NOTE:

Unit size: mm[inch]

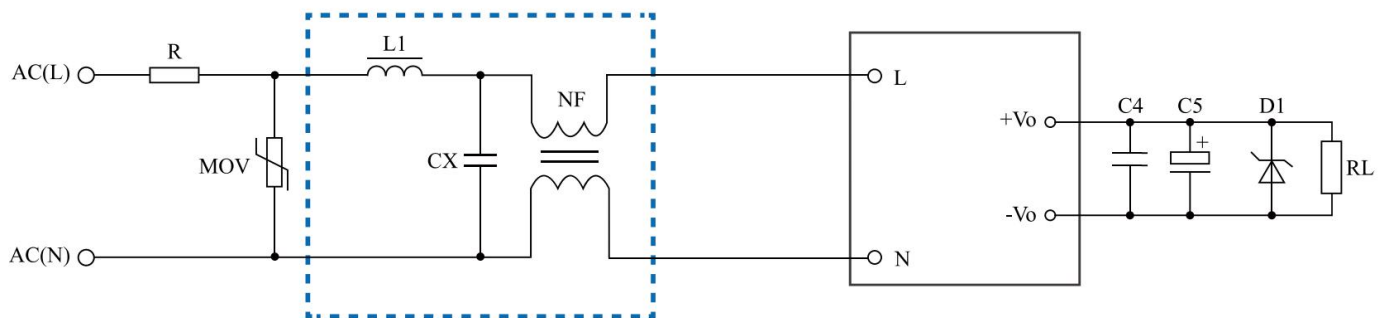
Terminal tolerance: ± 0.1 mm

Unmarked tolerances: ± 0.5 mm

Derating Curve



Type Application



NOTE:

- 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.
- 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
QM05-26B05	Varistors 14D821K	Safety R 10Ω/2W	Common mode 30mH/0.5A	1mH/ 0.5A	104K/60 0V	104K/50V	470uF/16V	P6KE7.5A
QM05-26B09							150uF/16V	P6KE15A
QM05-26B12							120uF/16V	P6KE16A
QM05-26B15							120uF/25V	P6KE20A
QM05-26B24							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°C, 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.