

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 |

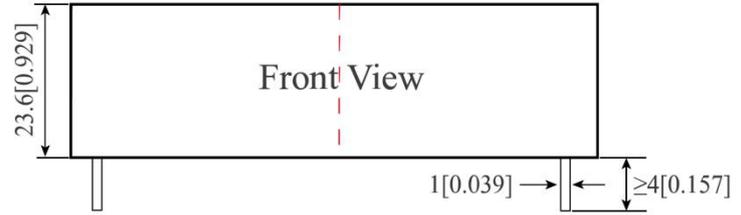
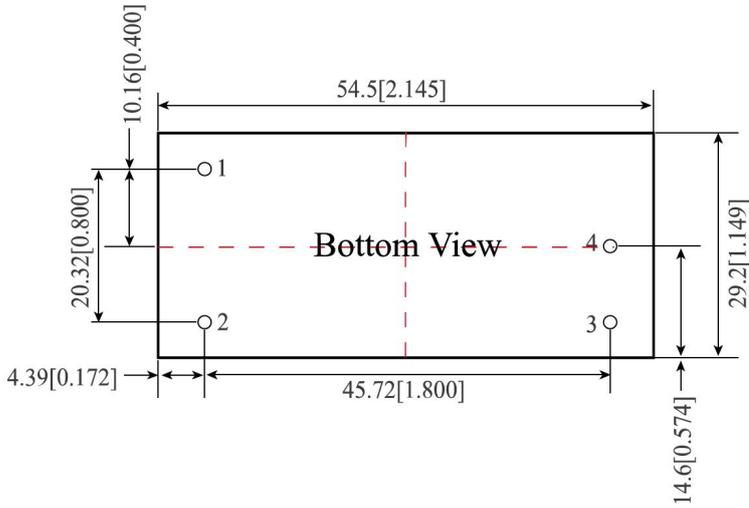
Mechanical Specification

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

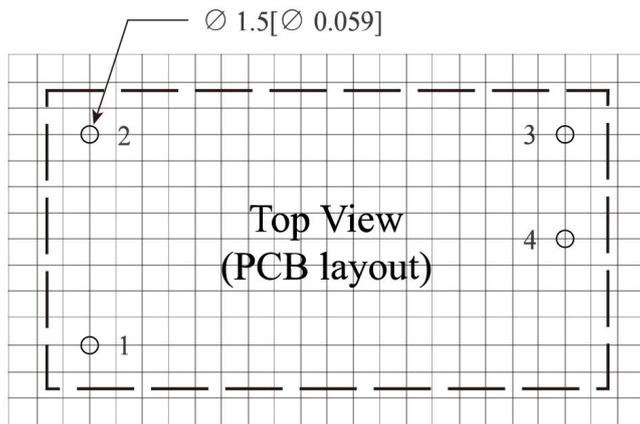
EMC Specifications

| | | | |
|------------|-------|---|------------------|
| 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

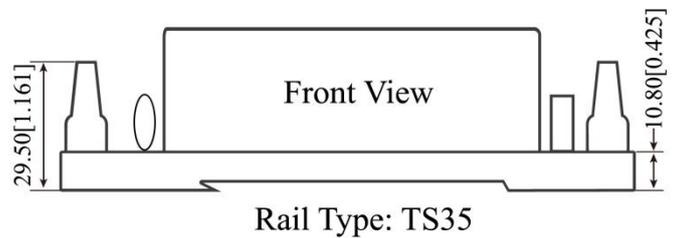
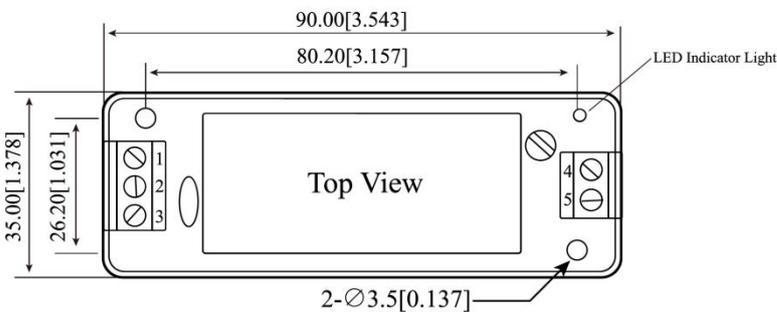


Third Angle Projection



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

Note: Grid Spacing 2.54 * 2.54mm



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

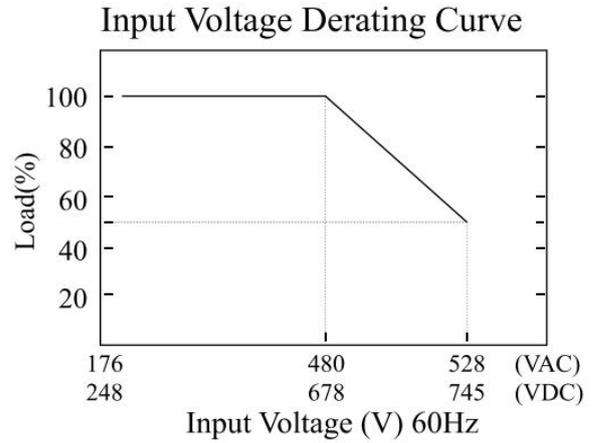
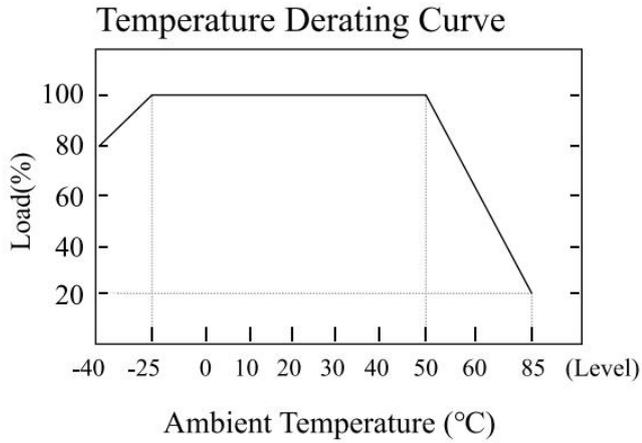
NOTE:

Unit size: mm[inch]

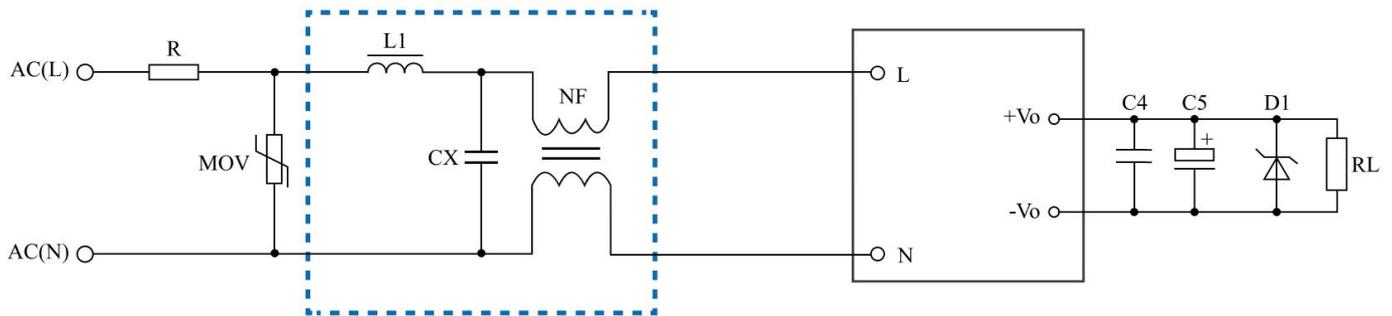
Terminal tolerance: ±0.1mm

Unmarked tolerances: ±0.5mm

Derating Curve



Type Application



NOTE:

- 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.