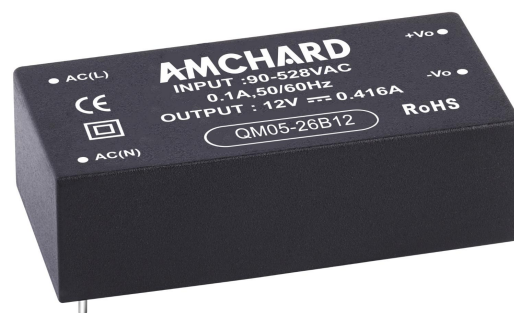


Product Feature

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°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.
QM05-26B03	90-528VAC 100-745VDC	3.3	3.3	1000	74	10000
QM05-26B05		5	5	1000	72	10000
QM05-26B09		5	9	555	74	5000
QM05-26B12		5	12	416	74	3000
QM05-26B15		5	15	333	74	2000
QM05-26B24		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

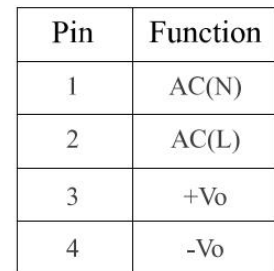
EMI	CE	CISPR32/EN55032 CLASS B	
	RE	CISPR32/EN55032 CLASS B	
EMS	RS	IEC/EN61000-4-3 10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4 ±4KV	perf. Criteria B
	Surge	IEC/EN61000-4-5 line to line ±1KV	perf. Criteria B
		IEC/EN61000-4-5 line to line ±2KV (application circuit 2)	perf. Criteria B
	CS	IEC/EN61000-4-6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

Side View

15.5 [0.610]

1 [0.039]

≥ 4 [0.157]



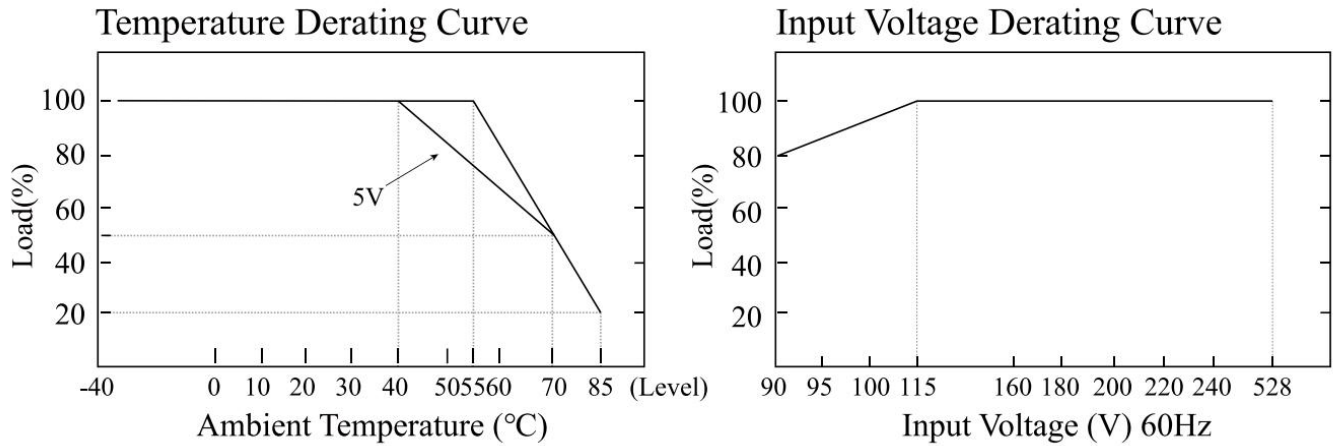
Front View

Rail Type: TS35

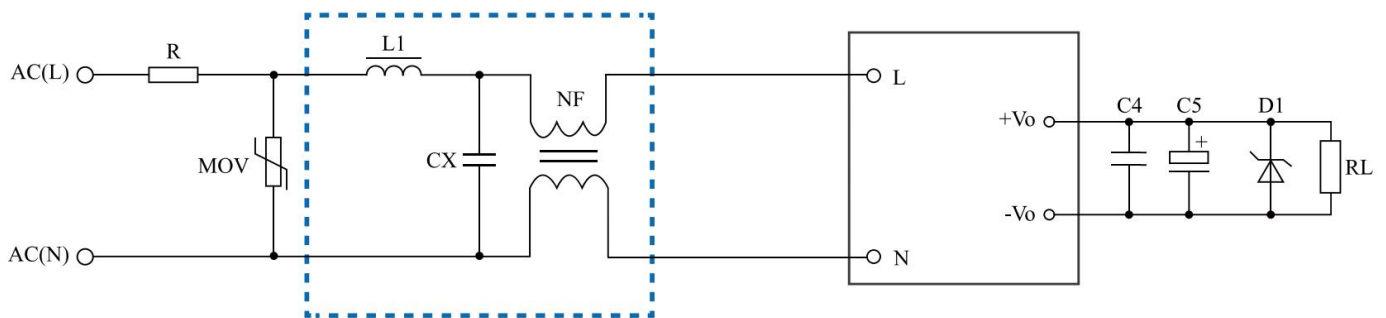
Pin	Function
1	AC(N)
2	No Pin
3	AC(L)
4	+Vo
5	-Vo

NOTE: Unit size: mm[inch] Terminal tolerance: $\pm 0.1\text{mm}$ Unmarked tolerances: $\pm 0.5\text{mm}$

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
QM05-26B03	Varistors 14D821K	Safety R 10Ω/1W	Common mode 30mH/0.5A	1mH/ 0.5A	104K/60 0V	104K/50V	470uF/16V	P6KE7.5A
QM05-26B05							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.

DONGGUAN AMCHARD-POWER TECHNOLOGY CO., LTD.

www.amchard-power.com

Mail:info@amchard-power.com