



Features :

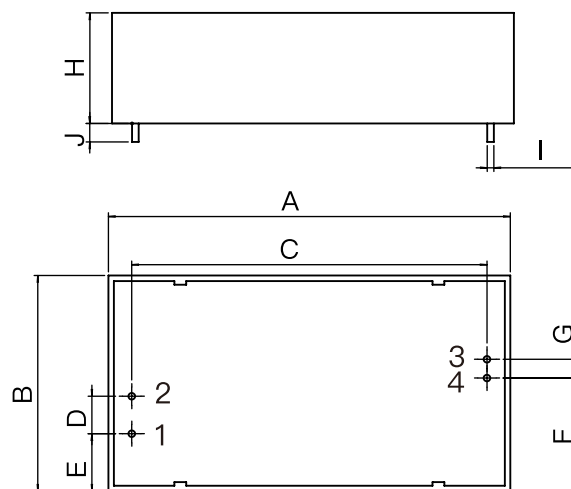
- Wide voltage input range: 100–700Vdc
- Multiple protection
- Low power consumption
- No load power consumption <0.4W
- EMI level: CLASSB
- High efficiency, up to 88%
- 3 years warranty
- 100% full load burn-in test

Specification

MODEL		CRMH-60-12	CRMH-60-15	CRMH-60-24
INPUT	VOLTAGE RANGE	100~700VDC (Refer to “ Derating curve”)		
	FREQUENCY	85%	87%	88%
	AC CURRENT(Typ.)	160m A / 400VDC		
	INRUSH CURRENT(Typ.)	40 A / 400VDC		
	LEAKAGE CURRENT	<0.1mA at 265VAC/50Hz		
OUTPUT	DC VOLTAGE	12V	15V	24V
	RATED CURRENT	5A	4A	2.5A
	CURRENT RANGE	0~5A	0~4A	0~2.5A
	RATED POWER	60W	60W	60W
	RIPPLE&NOISE(max.)	100mVp-p	100mVp-p	100mVp-p
	CAPACITIVE LOAD (min)	1000uF	1000uF	1000uF
	VOLTAGE TOLERANCE	±1.0% (±2.0%max)		
	LINE REGULATION	±1.0%		
	LOAD REGULATION	±1.0%		
	SETUP, RISE TIME	3000ms/400VDC (TYP) at full load		
	HOLD UP TIME(Typ.)	20ms/400VDC at full load		
PROTECTION	OVER LOAD/SHORT CIRCUIT	Protection type: recovers automatically after fault condition is removed.		
	OVER VOLTAGE	Protection type: Shutdown o/p voltage , re-power on to recover		
ENVIRONMENT	WORKING TEMP	-40 ~ +70 °C (Refer to “ Derating curve”)		
	WORKING HUMIDITY	85% .RH max		
	STORAGE TEMP.,HUMIDITY	-40 ~ +85, 10 ~ 95% RH		
	TEMP. COEFFICIENT	0.03%/ (0~ 50°C)		
	VIBRATION	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes		
Safety and electromagnetic compatibility	Safety standards	EN62109-1		
	Withstand voltage	I/P-O/P:3000VAC		
	Isolation resistance	I/P-O/P: >100M Ohms/500VDC 25°C 70% RH		
	Electromagnetic compatibility emission	Parameter	Standard	Test Level / Note
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB176025.1EAC TP TC 020,MSIP KN32	Class B
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB176025.1EAC TP TC 020,MSIP KN32	Class B
		Harmonic current	BS EN/EN601000-3-2,GB9254	Class A
		Voltage flicker	BS EN/EN601000-3-3	----

Safety and electromagnetic compatibility	Electromagnetic compatibility immunity	BS EN/EN55035		
		Parameter	Standard	Test Level /Note
		ESD	BS EN/EN601000-4-2	Level 4, 8KV /15KV
		RF field susceptibility	BS EN/EN601000-4-3	Level 4
		EFT bursts	BS EN/EN601000-4-4	Level 3, 2KV
		Surge susceptibility	BS EN/EN601000-4-5	Level 3, 1KV
		Conducted susceptibility	BS EN/EN601000-4-60	Level 4
		Magnetic field immunity	BS EN/EN601000-4-8	Level 4
		Voltage dips , interruption	BS EN/EN601000-4-11	
OTHERS	MTBF	200K hrs min. MIL-HDBK-217F(25)		
	DIMENSION	109*58.5*30mm (L*W*H)		
	PACKING	box: 360*300*250mm,180g/pcs 9kg/box		
NOTE	1.The above data are measured when TA = 25 ° C, Humidity & Lt. 75% , input nominal voltage 600VAC and output rated load except for special instructions; 2.Ripple and noise is according to this manual application circuit connection, the use of 300mm twisted-pair, bandwidth of 20MHZ measured. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4.The power supply is considered as a component in the system, which needs to be verified with the terminal equipment.			

Mechanical specification



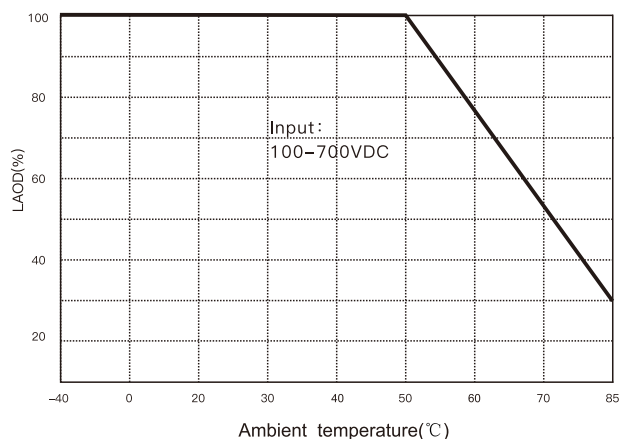
PIN NO.	功能
1	-Vin
2	+Vin
3	-VO
4	+VO

DIM	A	B	C	D	E	F	G	H	I	J
尺寸	109	58.5	96.32	10.16	15.6	30.7	5.08	30	1.8	2.85

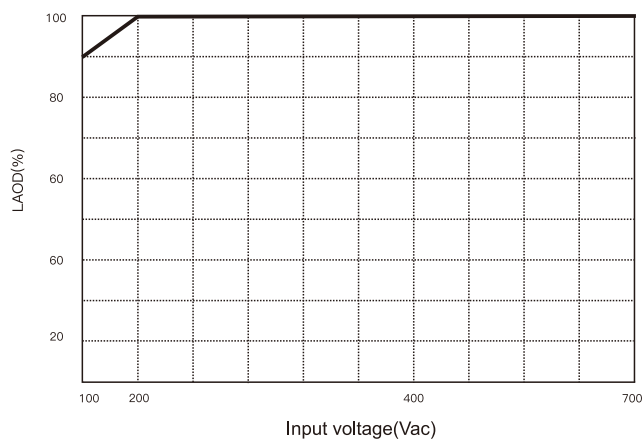
Note
Unit:mm
The diameter of 1,2,3,4 pins is 1.8 mm
Terminal diameter tolerance:+0.1mm
Terminal height tolerance:±0.25mm
Undeclared tolerances:+0.5mm

Derating curve

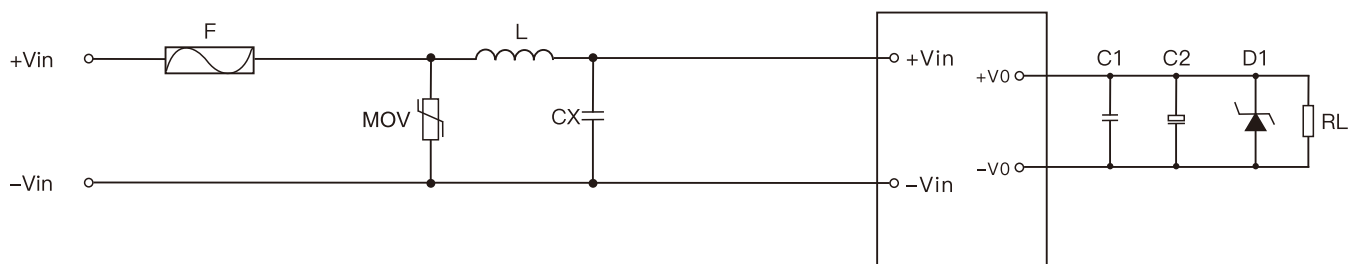
Derating curve



Static characteristics



Typical application



Note: Inside the dotted line box are EMC filters that meet higher EMC requirements, such as general applications, can be dispensed with.

Typical values for external circuit components

COM MODEL	F (optional)	MOV (must)	L	CX	C1 (optional)	C2 (optional)	D1(optional)
CRMH-60-12	4A /1000V	MOV is piezoresistive and the recommended value is 20D821K	0.47mH	105K/100VDC (or in series with two 10uF/450vdcS)	104K/50V (Ceramic chip capacitor)	100uF-470uF/16V	P6KE16A
CRMH-60-15						100uF-330uF/25V	P6KE20A
CRMH-60-24						100uF-220uF/35V	P6KE33A