MCHQ40VxB series

40W LED Switching Power Supply (CV+CC) with 3 in 1 dimming function



Features:

- Universal AC input / Full range (Max. 305VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in active PFC function
- IP65 design for indoor and outdoor appliances
- Compliance to worldwide regulations for lighting
- Built-in 3 in 1 dimming function: 0-10V or PWM or resistance



© MODEL ENCODING

мсно	40V	x	В	-Y
Series	Rated output power	Rated output voltage	Built-in 3 in 1 dimming function	Case color
		X = 12 -> 12VDC		-Y = blank -> grey
		X = 24 -> 24VDC		-Y = SC -> silver

© ELECTRICAL SPECIFICATION

MODEL	MCHQ40V12B	MCHQ40V24B				
MODEL	MCHQ40V12B-SC	MCHQ40V24B-SC				
OUTPUT						
Rated Voltage	12V	24V				
Constant Current Region [2]	6 ÷ 12V	12÷24V				
Rated Current	3.3A	1.66A				
Rated Power (max.)	39.6W	39.84W				
No Output Voltage (max.)	15V	30V				
Line Reglation	± 1%					
Load Reglation	± 3%					
Current Tolerance [3]	± 5%					
Ripple & Noise (max.) [4]	350mV _{P-P}	450mV _{P-P}				
Setup, Rise [5]	500ms, 30ms					
Holdup time	15ms					
INPUT						
Voltage Range	90 ÷ 305VAC					
Frequency Range	47 ÷ 63Hz					
Power Factor (typ.)	PF > 0.98 / 115VAC; PF > 0.95 / 230VAC at full load					
Efficiency (typ.)	87%	88%				
AC current (typ.)	0.55A / 115VAC; 0.22A / 230VAC					
Inrush current (max.)	60A / 230VAC(25°C)					

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PROTECTIONS Range: 110 ÷ 160% Over Current Yipe: tontati current limiting to 50% rated voltage next hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Yipe: hiccup mode. Recovers automatically after fault condition is removed. Over Voltage Max. 18V Max. 33V Over Voltage Max. 18V Max. 33V Over Temperature Range: 110°C ± 10°C Max. 33V Over Temperature Agre: 110°C ± 70°C (refer to Derating Curve) Max. 33V Working Temperature -40°C ± 70°C (refer to Derating Curve) Working Temperature (refer to Derating Curve) Working Temperature and Humidity 15 ± 95%. RH non-condensing Temperature Storage Temperature Coefficient ± 0.05% / 7C (10°C ± 45°C) Vibration Storage Temperature Coefficient ± 0.05% / 7C (10°C ± 45°C) Vibration Storage Temperature Coefficient ± 0.05% / 7C (10°C ± 45°C) Vibration Storage Temperature Coefficient ± 0.05% / 7C (10°C ± 45°C) Vibration Storage Temperature Coefficient ± 0.05% / 7C (10°C ± 45°C) Vibration Storage Temperature Coefficient ± 0.05% / 7C (10°C ± 65°C) ViD (10°C ± 65°C) <t< th=""><th colspan="7"></th></t<>							
Over Current Type: constant current limiting to 50% rated voltage next hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Max. 18V Max. 35V Over Voltage Max. 18V Max. 35V Over Temperature Range: 110°C ± 10°C Type: shut down output voltage. After temperature goes down re-power on to recovery. WORKING ENVIRONMENT Voltage -40°C ÷ 70°C (refer to Derating Curve) Voltage Working Temperature -40°C ÷ 70°C (refer to Derating Curve) Voltage Voltage Working Temperature Coefficient ± 0.05% /1°C (-10°C ÷ 5°C) Viscal = 0.05% /1°C (20°C ÷ 4°C) Viscal = 0.05% /1°C (20°C ÷ 4°C) Vibration 10 ÷ 500Hz, 26, 10min /1 cycle, period 30min. each along X, Y, 2 axes SAFETY AND EMC REGULATIONS Sofety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT: SJ&VDC/1min Isolation Resistance IN/OUT: IN/GND; 0UT/GND: 50MΩ/500VDC/25°C/70% EMC Emission Compliance to EN61347, EN61347-2-13 Withstand Voltage IN/OUT: SJ&VDC/1min Sofety Standards Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 EMC Em	PROTECTIONS						
Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Max. 18V Max. 35V Over Voltage Max. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery. Range: 110°C ± 10°C Type: shut down output voltage. After temperature goes down re-power on to recovery. WORKING ENVIRONMENT V Working Temperature -40°C ± 70°C (refer to Derating Curve) V Working Temperature -40°C ± 70°C (refer to Derating Curve) V V Working Temperature -40°C ± 70°C (refer to Derating Curve) V V Working Temperature -40°C ± 70°C (refer to Derating Curve) V V Working Humidity 15 ± 95% RH non-condensing Tupe: shut down output voltage. After temperature does down re-power on to recovery. Storage Temperature and Humidity 40°C ± 80°C, 10 ± 95% RH non-condensing Tupe: shut down output voltage. Not shut and to the shot shot shot shot shot shot shot shot		Range: 110 ÷ 160%					
Max. 18V Max. 35V Over Voltage Max. 35V Type: shut down output voltage. Re-power on to recovery. Range: 110°C ± 10°C Type: shut down output voltage. After temperature goes down re-power on to recovery. WORKING ENVIRONMENT Working Temperature -40°C ÷ 70°C (refer to Derating Curve) Working Humidity 15 ÷ 95% RH non-condensing Storage Temperature and Humidity -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing Temperature Coefficient ± 0.05% / °C (-10°C ÷ 45°C) Vibration 10 ÷ 500Hz, 26, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety Standards Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT; 5.3kVDC/Imin Esolation Resistance IN/OUT; IN/GND; OUT/GND: 50MQ/500VDC/25°C/70% EMC Emission Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN5024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN5024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN5024; EN61547 Wielght and Packing 157 x 53 x 36.5mm (L x W x H) Wielght and Packing 0.5kg: 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm MCHQ409128 MCHQ409248 MCHQ409128 MCHQ409248 <	Over Current						
Over Voltage Type: shut down output voltage. Re-power on to recovery. Bange: 110°C ± 10°C Type: shut down output voltage. After temperature goes down re-power on to recovery. WORKING ENVIRONMENT 40°C ÷ 70°C (refer to Derating Curve) Working Temperature -40°C ÷ 70°C (refer to Derating Curve) Working Humidity 15 ÷ 95% RH non-condensing Storage Temperature and Humidity -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing Storage Temperature and Humidity -40°C ÷ 40°C (-10°C ÷ 45°C) Vibration 10 ÷ 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety Standards Sofety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT; 5.3kVDC/Imin Isolation Resistance IN/OUT; N/GND; OUT/GND: 50MQ/500VDC/25°C/70% EMC Emission Compliance to EN613647; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61000-3-2 class C (≥ 100% load) OTHERS 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg: 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code Image: States MCHQ40V248	Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.					
Type: shut down output voltage. Re-power on to recovery. Range: 110°C ± 10°C Type: shut down output voltage. After temperature goes down re-power on to recovery. WORKING ENVIRONMENT Working Temperature -40°C ÷ 70°C (refer to Derating Curve) Working Humidity 15 ÷ 95% RH non-condensing Storage Temperature and Humidity -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing Temperature Coefficient ± 0.05% / °C (10°C ÷ 45°C) Vibration 10 ÷ 500Hz, 26, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety Standards Sofety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT; IN/GND; OUT/GND: 50MO/500VDC/25°C/70% EMC Emission Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs/box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V248	OverVeltere	Max. 18V	Max. 35V				
Over Temperature Type: shut down output voltage. After temperature goes down re-power on to recovery. WORKING ENVIRONMENT 40°C ÷ 70°C (refer to Derating Curve) Working temperature -40°C ÷ 70°C (refer to Derating Curve) Working Humidity 15 ÷ 95% RH non-condensing Storage Temperature and Humidity -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing Temperature Coefficient ± 0.05% / °C (-10°C ÷ 45°C) Vibration 10 ÷ 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, 2 axes SAFETY AND EMC REGULATIONS Safety Standards Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT; SJAVDC/Imin Isolation Resistance IN/OUT; IN/GND; OUT/GND: SOM0/S00VDC/25°C/70% EMC Emission Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 HTBF 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs/box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V128 MCHQ40V248	Over voltage	Type: shut down output voltage. Re-power on to recovery.					
WORKING ENVIRONMENT Working Temperature -40°C + 70°C (refer to Derating Curve) Working Humidity 15 + 95% RH non-condensing Storage Temperature and Humidity -40°C + 80°C, 10 + 95% RH non-condensing Temperature Coefficient ± 0.05% / °C (-10°C + 45°C) Vibration 10 + 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety Standards Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT: 5.3kVDC/1min Isolation Resistance IN/OUT; IN/GND; OUT/GND: 50MΩ/500VDC/25°C/70% EMC Emission Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61000-3-2 class C (≥ 100% load) OTHERS 157 × 53 × 36.5mm (L x W × H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 × 21 x 27cm EAN Code MCHQ40V128 MCHQ40V248		Range: 110°C ± 10°C					
Working Temperature -40°C ÷ 70°C (refer to Derating Curve) Working Humidity 15 ÷ 95% RH non-condensing Storage Temperature and Humidity -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing Temperature Coefficient ± 0.05% / °C (-10°C ÷ 45°C) Vibration 10 ÷ 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT: 5.3kVDC/1min Isolation Resistance IN/OUT; IN/GND; OUT/GND: SOM0/S00VDC/25°C/70% EMC Emission Compliance to EN61505 EMC Immunity Compliance to EN61507: EMC Emission OTHERS Ornpliance to EN61000-3-2 class C (≥ 100% load) OTHERS 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V248	Over Temperature	Type: shut down output voltage. After temperature goes down re-power on to recovery.					
Working Humidity 15 ÷ 95% RH non-condensing Storage Temperature and Humidity -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing Temperature Coefficient ± 0.05% / °C (-10°C ÷ 45°C) Vibration 10 ÷ 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety standards Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT: 5.3kVDC/1min Isolation Resistance IN/OUT; IN/GND: 0UT/GND: 50MΩ/500VDC/25°C/70% EMC Emission Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 MTBF 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V228	WORKING ENVIRONMENT						
Storage Temperature and Humidity -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing Temperature Coefficient ± 0.05% / °C (-10°C ÷ 45°C) Vibration 10 ÷ 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety Standards Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT: 5.3kVDC/1min Isolation Resistance IN/OUT; IN/GND; OUT/GND: 50MQ/500VDC/25°C/70% EMC Emission Compliance to EN55015 EMC Immunity Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61000-3-2 class C (≥ 100% load) OTHERS 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm MCHQ40V128 MCHQ40V248 Juitty Standards MCHQ40V248	Working Temperature	-40°C ÷ 70°C (refer to Derating Curve)					
Temperature Coefficient $\pm 0.05\% / ^{\circ}C (-10^{\circ}C \pm 45^{\circ}C)$ Vibration $10 \pm 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axesSAFETY AND EMC REGULATIONSSafety StandardsCompliance to EN61347-1, EN61347-2-13Withstand VoltageIN/OUT; S.3kVDC/1minIsolation ResistanceIN/OUT; IN/GND; OUT/GND: 50MΩ/500VDC/25°C/70%EMC EmissionCompliance to EN55015EMC ImmunityCompliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547Harmonic CurrentCompliance to EN61000-3-2 class C (\ge 100\% load)OTHERS43 200h MIL-HDBK-217F (25°C)Dimensions157 x 53 x 36.5mm (L x W x H)Weight and Packing0.5kg; 15pcs, /box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cmEAN CodeMCHQ40V22B$	Working Humidity	15 ÷ 95% RH non-condensing					
Vibration 10 ÷ 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axes SAFETY AND EMC REGULATIONS Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT: 5.3kVDC/1min Isolation Resistance IN/OUT; IN/GND; OUT/GND: 50M0/500VDC/25*C/70% EMC Emission Compliance to EN55015 EMC Immunity Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61500-3-2 class C (≥ 100% load) OTHERS 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs/box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V128 MCHQ40V248	Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing					
SAFETY AND EMC REGULATIONS Safety Standards Compliance to EN61347-1, EN61347-2-13 Withstand Voltage IN/OUT: 5.3kVDC/1min Isolation Resistance IN/OUT; IN/GND; OUT/GND: 50MQ/500VDC/25°C/70% EMC Emission Compliance to EN55015 EMC Immunity Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61000-3-2 class C (≥ 100% load) OTHERS 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V128 MCHQ40V24B	Temperature Coefficient	± 0.05% / °C (-10°C ÷ 45°C)					
Safety StandardsCompliance to EN61347-1, EN61347-2-13Withstand VoltageIN/OUT: 5.3kVDC/1minIsolation ResistanceIN/OUT; IN/GND; OUT/GND: 50MΩ/500VDC/25°C/70%EMC EmissionCompliance to EN55015EMC ImmunityCompliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547Harmonic CurrentCompliance to EN61000-3-2 class C (≥ 100% Ioad)OTHERS43 200h MIL-HDBK-217F (25°C)Dimensions157 x 53 x 36.5mm (L x W x H)Weight and Packing0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cmEAN CodeMCHQ40V12B	Vibration	10 ÷ 500Hz, 2G, 10min / 1 cycle, period 30min. each along X, Y, Z axes					
Withstand Voltage IN/OUT: 5.3kVDC/1min Isolation Resistance IN/OUT; IN/GND; OUT/GND: 50MΩ/500VDC/25°C/70% EMC Emission Compliance to EN55015 EMC Immunity Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61000-3-2 class C (≥ 100% load) OTHERS MTBF MTBF 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V24B	SAFETY AND EMC REGULATIONS						
Isolation ResistanceIN/OUT; IN/GND; OUT/GND: 50MΩ/500VDC/25°C/70%EMC EmissionCompliance to EN55015EMC ImmunityCompliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547Harmonic CurrentCompliance to EN61000-3-2 class C (≥ 100% load)OTHERS43 200h MIL-HDBK-217F (25°C)Dimensions157 x 53 x 36.5mm (L x W x H)Weight and Packing0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cmEAN CodeMCHQ40V12BMCHQ40V24B	Safety Standards	Compliance to EN61347-1, EN61347-2-13					
EMC Emission Compliance to EN55015 EMC Immunity Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547 Harmonic Current Compliance to EN61000-3-2 class C (≥ 100% load) OTHERS 43 200h MIL-HDBK-217F (25°C) MTBF 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm EAN Code MCHQ40V12B	Withstand Voltage	IN/OUT: 5.3kVDC/1min					
EMC ImmunityCompliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024; EN61547Harmonic CurrentCompliance to EN61000-3-2 class C (≥ 100% Ioad)OTHERS43 200h MIL-HDBK-217F (25°C)MTBF43 200h MIL-HDBK-217F (25°C)Dimensions157 x 53 x 36.5mm (L x W x H)Weight and Packing0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cmMCHQ40V12BMCHQ40V24BEAN CodeIIII A Compliance Substration of the state of the stat	Isolation Resistance	IN/OUT; IN/GND; OUT/GND: 50MΩ/500VDC/25°C/70%					
Harmonic Current Compliance to EN61000-3-2 class C (≥ 100% load) OTHERS 43 200h MIL-HDBK-217F (25°C) MTBF 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm MCHQ40V12B MCHQ40V24B JJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJ	EMC Emission	Compliance to EN55015					
OTHERS 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm MCHQ40V12B MCHQ40V24B EAN Code	EMC Immunity	Compliance to EN61547; EN61000-4-2, -3, -4, -	-5, -6, -8, -11; EN55024; EN61547				
MTBF 43 200h MIL-HDBK-217F (25°C) Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm MCHQ40V12B MCHQ40V24B Image: Base of the second seco	Harmonic Current	Compliance to EN61000-3-2 class C (\geq 100% load)					
Dimensions 157 x 53 x 36.5mm (L x W x H) Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm MCHQ40V12B MCHQ40V24B Image: Straight of the straight of t	OTHERS						
Weight and Packing 0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm MCHQ40V12B MCHQ40V24B Image: Stress of the stres of the stress of the stress of the stress o	MTBF	43 200h MIL-HDBK-217F (25°C)					
MCHQ40V12B MCHQ40V24B Image: Subscript of the state of the	Dimensions	157 x 53 x 36.5mm (L x W x H)					
EAN Code 519021351118177	Weight and Packing	0.5kg; 15pcs./box; box weight and dimensions: 8.2kg, 27.6 x 21 x 27cm					
		MCHQ40V12B	MCHQ40V24B				
	FAN Code	519021351118177					
519021351121870 519021351119150		MCHQ40V12B-SC	MCHQ40V24B-SC				
		5 902135 121870	5 902135 119150				

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

2. Constant current operation region is within announced range. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.

3. Tolerance incudes set up tolerance, line regulation and load regulation.

4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.

5. Setup and rise time is measured from 0 to 90% rated output voltage.

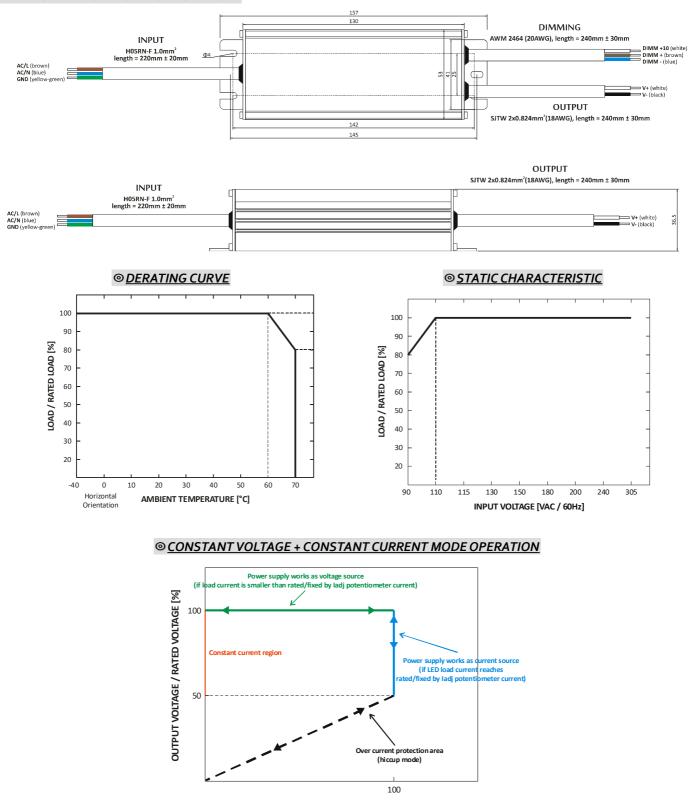
6. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

MCHQ40VxB series

40W LED Switching Power Supply (CV+CC) with 3 in 1 dimming function



© MECHANICAL SPECIFICATION



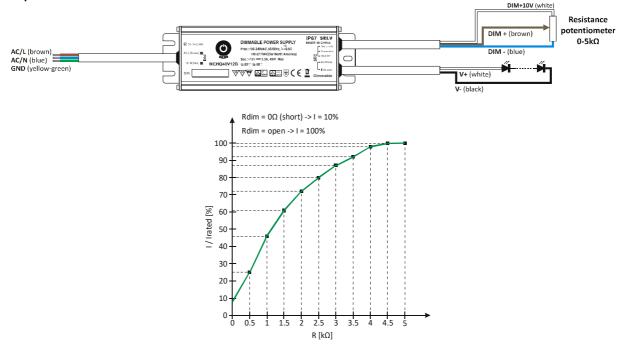
OUTPUT CURRENT / RATED CURRENT [%]



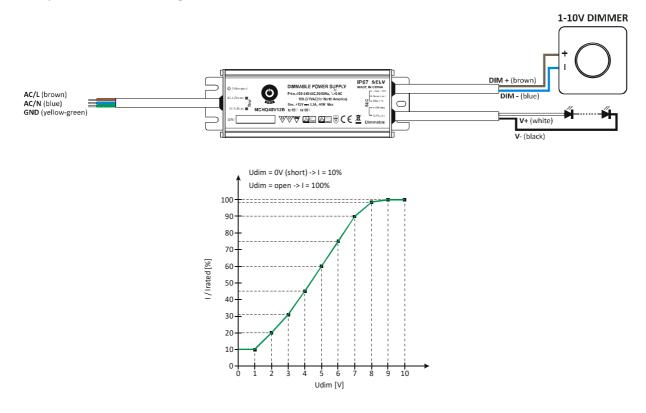
© <u>DIMMING OPERATION</u>

For use dimming function connect dimmer to DIM+ and DIM- terminals. Dimming effect is achieved by changing output constant current level in 10%÷100% range. You can use dimming function by one of three ways:

1. By variable resistance $0k\Omega \div 5k\Omega$:

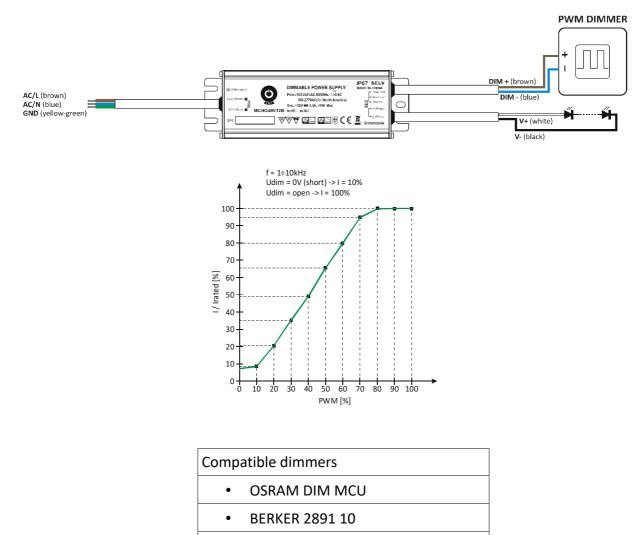


2. By variable DC voltage 1÷10V.





3. By variable PWM signal, duty range = $10\% \div 100\%$, f =1kHz $\div 10$ kHz, U = 10V.



• Other 1-10V dimmers