



100W MBC Series Circular Shape LED Driver

Features:

- * Universal AC full range input (to 305Vac)
- * Protection: Short circuit/Over current
- * Over voltage/Over temperature auto recovery
- * Constant current design (C.C.mode)
- * Built-in 4KV Lightning Surge protection
- * With active PFC function
- * Multiple dimming functions
- * IP65/IP67 Design for indoor and outdoor use
- * Suitable for LED and street lighting applications
- * Certified with UL/CB/CCC/CE



Input	
Voltage (Vac)	90 - 305
Input Frequency (Hz)	47 - 63
Power Factor (2) (Typ.)	PF>0.98 / 115VAC, PF>0.96 / 230VAC, PF>0.94 / 264VAC, @ full load
Total Harmonic Distortion	THD<20% @230VAC / 50Hz, @ full load
Input Current (Typ.)	1.1A/115VAC, 0.56A/230VAC, 0.5A/264VAC
Inrush Current (Typ.)	60A peak @ 230VAC, Cold Start
Leakage Current	< 0.75mA / 277VAC

Output	
Output Current Tolerance	± 5%
Ripple & Noise	300mVp-p
Output Ripple Current	± 5%
Line Regulation	± 1%
Turn-on Time	<1.0s @115VAC , 0.5S@230VAC, @ full Load
Hold up Time	> 12ms / 115VAC , @ full load

Electrical	
EMI	Meet EN 55015, EN 61000-3-2, EN 61000-3-3, FCC Part18; CNS 14115
EMS	Meet EN 61547, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-4-8, EN 61000-4-11
Lightning Surge	4KV(L/N-PE) & 2KV(L-N) /1.2*50µ sec
Hi-Pot	I/P-O/P: 3.75KVAC, I/P-PE: 2KVAC, O/P-PE: 0.5KVAC
Insulation Resistance	I/P-O/P, I/P-PE, O/P-PE: >100MΩ /500VDC/25°C/70%RH
Protection	Short Circuit, Over Voltage, Over Current & Over Temperature Protections
MTBF	220Khrs min. MIL-HDBK-217F(25°C)

Enviromental	
Operating Temperature	-40 to +70 degree celsius
Storage Temperature	-40 to +85 degree celsius
Operating Relative Humidity	10 to 95% RH
Storage Relative Humidity	10 to 95% RH

Safety	
Certified with UL/CB/CCC/CE	

Mechanical	
Dimension	Φ136 * 71 mm (*H)
Weight	900 gram

PART NUMBER	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	WATTAGE (W)
MBC-100-1600	36 - 63	1600	100
MBC-100-1750	36 - 56	1750	100
MBC-100-2100	29 - 49	2100	100
MBC-100-2450	29 - 42	2450	100
MBC-100-2800	22 - 35	2800	100