



80 – 90W MDC Series LED Driver

Features:

- * Universal AC Input 90 - 305 Vac
- * Built-in 10KV lightning surge protection (EN61000-4-5)
- * Output voltage range up to 257Vdc for outdoor lighting
- * Aluminum case IP65/ IP67 waterproof
- * Dual mode over temperature thermal design
- * Built-in 3 in 1 output current dimming function
- * Optional timer dimming function
- * Class 2 power unit / Pass LPS ; Long lasting life time
- * Certified with UL/CB/CCC/CE/PSE
- * Outdoor LED luminaries rugged driver solutions



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, 0.55A / 230VAC, 0.5A / 277VAC
Inrush Current (Typ.)	60A peak @ 230VAC, Cold Start
Leakage Current	< 0.75mA / 277VAC

Output	
Output Current Tolerance	± 5%
Ripple & Noise	MDC-080-0350 0.5Vp-p ; MDC-080-0350/0700/1400/1750/2100/2450 0.2Vp-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	EN 55015, EN 61000-3-2, EN 61000-3-3, FCC Part18, CNS 14115, GB 17743
EMS	EN 61547, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, GB 17625.1
Lightning Surge	10KV(L/N-PE) & 5KV(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 Temperature Protections
MTBF	320Khrs 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/PSE	

Mechanical	
Dimension	191 * 63 * 40mm (L*W*H)
Weight	830 gram

PART NUMBER	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	WATTAGE (W)
MDC-080-0350	128 - 257	350	90
MDC-080-0700	64 - 129	700	90
MDC-080-1400	29 - 58	1400	82
MDC-080-1750	25 - 49	1750	86
MDC-080-2100	21 - 42	2100	88
MDC-080-2450	18 - 35	2450	86