



120 - 150W 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 430Vdc for outdoor lighting
- * Aluminum case IP65/ IP67 waterproof
- * Dual mode over temperature thermal design
- * Output voltage automatic tracing & fixing function
- * Built-in 3 in 1 output current dimming function
- * Optional timer dimming function
- * 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>0.95 / 230VAC, PF>0.93 / 264VAC, @ full load
Total Harmonic Distortion	THD<10% @230VAC / 50Hz, @ full load
Input Current (Typ.)	MDC1200350/MDC1200500/MDC1200700/MDC1201050/MDC1201400 1.6A / 115Vac, 0.8A / 230Vac, 0.7A / 277Vac MDC1202100/MDC1202450/MDC1202800/MDC1203500/MDC1204550 1.3A / 115vac, 0.65A /230Vac, 0.55A / 277Vac
Inrush Current (Typ.)	75A peak @ 230VAC, Cold Start
Leakage Current	< 0.75mA / 277VAC

Output	
Output Current Tolerance	± 5%
Ripple & Noise	MDC1200350 2Vp-p; MDC1200500 1.5Vp-p; MDC1200700/MDC1201050/MDC1201400 1Vp-p; MDC1202100 / MDC1202450 / MDC1202800 / MDC1203500 / MDC1204550 0.2Vp-p
Output Ripple Current	± 5%
Line Regulation	± 1%
Turn-on Time	< 1.5S @ 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	220Khrs min. MIL-HDBK-217F(25°C)

Environmental	
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	209 * 63 * 40mm (L*W*H)
Weight	950 gram



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PART NUMBER	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	WATTAGE (W)
MDC-120-0350	215 - 430	350	150
MDC-120-0500	150 - 300	500	150
MDC-120-0700	107 - 215	700	150
MDC-120-1050	74 - 148	1050	155
MDC-120-1400	54 - 108	1400	151
MDC-120-2100	29 - 58	2100	122
MDC-120-2450	36 - 49	2450	120
MDC-120-2800	31 - 42	2800	120
MDC-120-3500	26 - 35	3500	122
MDC-120-4550	21 - 27	4550	123