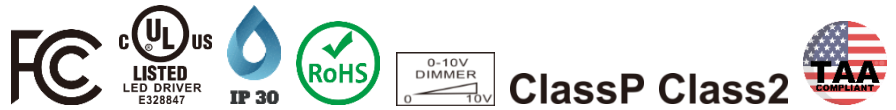




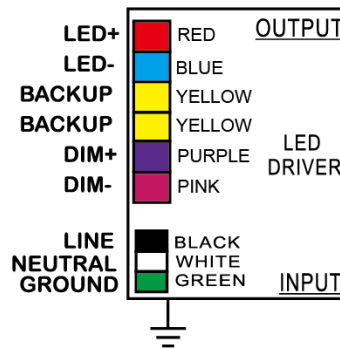
<b>Model Name</b>	MC1200S48DL
<b>Output Mode</b>	Constant Current
<b>Input Voltage</b>	120-347 Vac
<b>Input Frequency</b>	50/60 Hz
<b>Dimming</b>	3 in 1 (PWM,1-10V,Resistance) 1-100% Dimming
<b>Surge Rating</b>	2KV
<b>Warranty</b>	5 Years $TC \leq 75^{\circ}C$ 3 Years $75^{\circ}C \leq TC \leq 90^{\circ}C$

## Product Specification



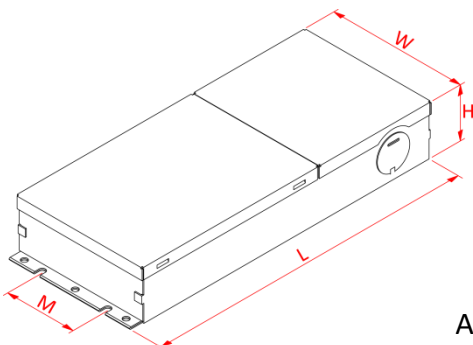
Output Power (W)	Output Voltage (V)	Output Current (A)	Start Temp. ( $^{\circ}F/^{\circ}C$ )	Tcase Temp. ( $^{\circ}F/^{\circ}C$ )	Input Current (A)	Input Power (W)	Inrush Current (A)	THD (%)	Power Factor	Efficiency (%)
Max. 48	25-42	1.2	Min. -40/-40	Max. 194/90	0.48@120V 0.16@347V	55	Max. 35	Max. 20	Min. 0.9	Typ. 87

## Wire Diagram



Maximum Wiring Distance (at full load) is 18AWG/18Feet  
LED case should be grounded

## Enclosure



AM175

Enclosure	Inch	Cm
Length(L)	8.11	20.6
Width(W)	3.4	8.7
Height(H)	1.36	3.45
Mounting(M)	1.77	4.5



## Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	108V	120/277V	305V	
Input Current	-	-	0.5A RMS	@120Vac input with full load
Input Frequency	47Hz	60Hz	63Hz	
Leakage Current	-	-	0.7mA	@120Vac input
Turn On Time	-	-	1.0s	@120Vac input at full load
Hold Up Time	-	-	0.1s	@Nominal input and full load
Efficiency	85%	87%	89%	@277Vac input at full load
Standby Power	-	-	3W	
Current Total Harmonic	-	-	20%	

## Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Voltage	25V	-	42V	
Output Current	-	1200mA	-	
No-Load Output Voltage	40V	50V	55V	
Rated Current	1140mA	1200mA	1260mA	
Rated Power	-	48W	-	
Line Regulation	-	-	±5%	
Output Current Ripple	-	±10%	-	

## General Specifications

Parameter	Min.	Typ.	Max.	Notes
MTBF	-	100,000 Hours	-	@25°C ambient temperature
Lifespan Time	75,000 Hours	-	-	In the range of specification required by normal use of the power supply at ambient temperature 55°C
Cold Start	-	-	1.0s	@-40°C



## Protection

Parameter	Description
Over Voltage	Output current decade mode, recovers automatically after fault condition is removed.
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.
Over Temperature	Shut down o/p voltage, re-power on to recover.

## Environmental Specifications

Parameter	Min.	Typ.	Max.	Notes
Operation Temperature	-40℃	-	80℃	
Storage Temperature	-40℃	-	80℃	
Humidity	10%	-	90%	
T-Case Temperature	-	-	90℃	

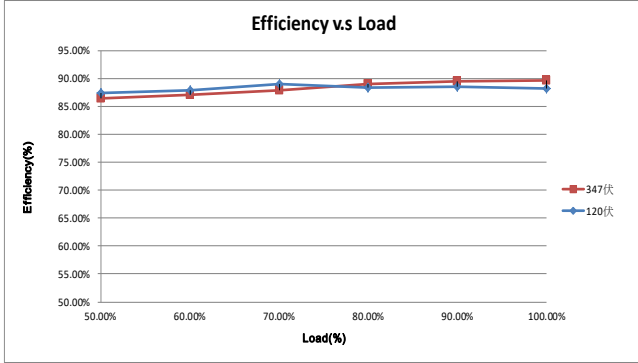
High Temperature Durability	Switch ON/OFF Test
Power storage environment at 80℃ 24hours, will not damage the electrical, mechanical properties and also not cause other adverse reactions.	Power at ambient temperature 25℃ 1s/on, 1s/off, last up to 10,000 cycles, will not damage the electrical mechanical properties and also not cause other adverse reactions.

## Safety and EMC Compliance

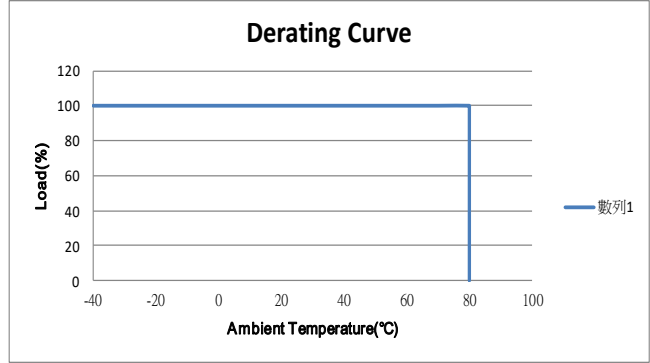
Safety Standards	Withstand Voltage	Isolation Resistance	EMC Standards	
			EMI	EMS
UL 8750 UL1310	I/P-O/P: 2.0K Vac I/P-FG: 2.0K Vac O/P-FG: 0.5K Vac	I/P-O/P: I/P-FG: O/P-FG: 100Mohm/500VDC	FCC Part 15 class A UL8750 CSA C22.2 No. 250.13-14	FCC Part 15 class A UL 8750



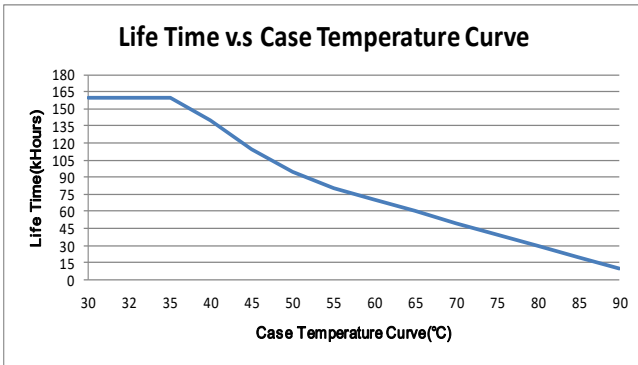
## Efficiency V.S. Load



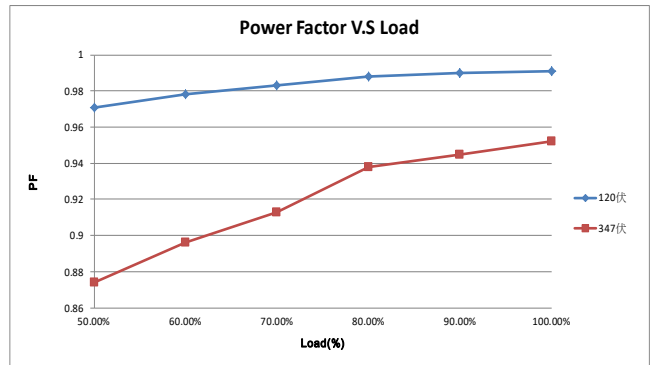
## Derating Curve



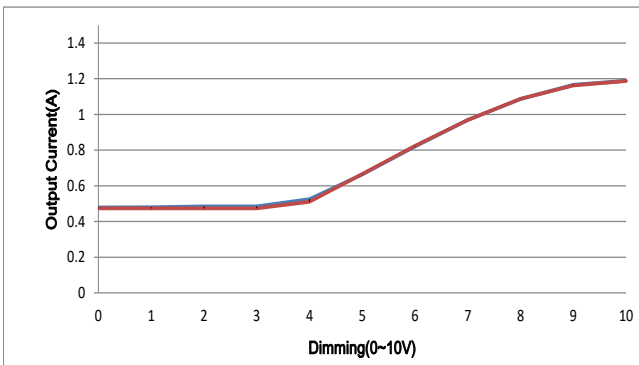
## Life Time Curve



## Power Factor V.S. Load



## Dimming Characteristic



Data is based upon tests performed by Antron Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.