

48W 0-10V Dimmable Driver

18V to 24V / 1.4A to 2A with External Resistor

Catalog #		Type
Project		
Comments		Date
Prepared by		

Features

- " Dimmable Type : 0 -10 Dimming
- " Constant Voltage / Constant Current Control
- " High Efficiency
- " Active Power Factor Correction
- " Protection : UVP, OVP, SCP, OTP and OCP
- " UL8750, IEC/EN61347, SELV Output Safety Certifications Approved



Critical Specifications

Input Voltage	Output Voltage	Output Current	Output Power	Efficiency	THD	Power Factor
108 - 305VAC	18 - 24VDC	1.4 - 2.0A	Max. 48W	> 83%	< 20%	> 0.9

Input Specifications

Parameter	Min	Typ.	Max	Unit	Remark
Input Voltage	108	-	305	VAC	
Input Current	-	-	TBD	A	
Input Frequency	47	-	63	Hz	
Power Factor	0.9	-	-	PF	At over 70% output load
Inrush Current	-	-	TBD	Apk	Based on IEC60555

Output Specifications

Parameter	Min	Typ.	Max	Unit	Remark
Output Voltage	18	21	24	V	
Output Current	1.4	-	2.0	A	Automatic set by external resistor (Rset)
Output Dimming Current Range	10	-	100	%	0 -10 Dimming
Output Current Tolerance	-5	-	+5	%	
Output Ripple Current	-	20	-	%	
Start-up Time	-	-	500	ms	

Protection Functions

Parameter	Min	Typ.	Max	Unit	Remark
Output Over Voltage Protection			42	V	Auto recovery
Output Short Circuit Protection			3.5	A	Auto recovery
Over Temperature Protection		90		°C	Case Temperature
Input Under Voltage Protection			80	Vac	Auto recovery


Reliability Specifications

Parameter	Min	Typ.	Max	Unit	Remark
Life Time	50	-	-	KHr	At 60°C Tcase
	25	-	-	KHr	At 70°C Tcase
Failure Rate	-	-	TBD	%	At 60°C Tcase, early 500Hr
	-	-	10	%	At 60°C Tcase, 50KHr

Environmental Specifications

Parameter	Min	Typ.	Max	Unit	Remark
Temperature	-25	-	85	°C	Case temp. Perf. Range
	-35	-	85	°C	Ambient temp. for storage
Humidity	10	-	90	%	Relative humidity for operation
	-	-	95	%	Relative humidity for storage

Standards

Parameter	Condition	Remark
Safety Standards	<ul style="list-style-type: none"> - UL 8750, UL 1310, C22.2 No.223 - IEC/EN 61347-1, IEC/EN 61347-2-13 - SELV Output - Temperature declared thermally protected lamp Driver 	<div style="text-align: center;">  </div> Class 2 (for Americas) Protection type : Protection type : Manual resetting type
EMI / RFI Standards	<ul style="list-style-type: none"> - EN 55015:2006+A1+A2 - EN 61547:2009 - EN 61000-3-2:2006 - EN 61000-3-3:2008 - FCC part 15, Class A verification 	

Wiring Diagram

