



Exclara Product Brief

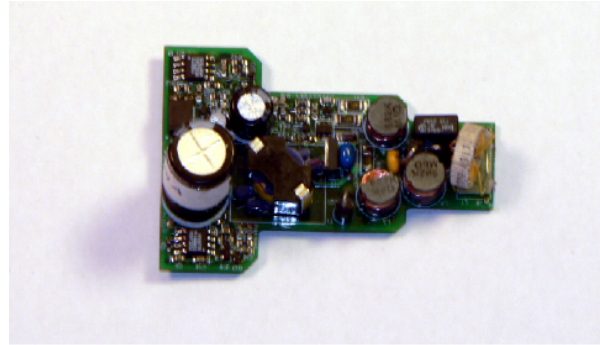
Preliminary

EXM412

10.5 Watt Dimmable LED Ballast

Product Overview

The EXM412 is a power factor corrected LED Driver optimized in size and performance for low power ballast applications. A key attribute is that it can be used with standard leading and trailing edge phase dimmers making it suitable for all indoor lighting applications. It is among the industry's smallest design employing these features. Its Patent Pending design offers truly reliable operation with all standard dimmers with dimming resolution down to 5% of full scale output.



EXM412

Features	Applications
<ul style="list-style-type: none">• Output power = 10.5 W• Efficiency, 80%• High Power Factor – 0.95• Fits in PAR30	<ul style="list-style-type: none">• Recessed down-light fixtures• Track lighting• Under-cabinet lighting• Accent Lighting



Key Electrical Characteristics

(Ta = -20°C – 70°C. Typical values are at Ta = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Input voltage	V_{IN}		110		132	VAC
Input Frequency	$freq_{IN}$		47		63	Hz
Power Factor	PF	$V_{IN} = 120VAC$ at rated load (PF per EN6100-3-2 Class C)		0.95		W/VA
Total Harmonic Distortion	THD	$V_{IN} = 120VAC$ at rated load (Per EN6100-3-2 Class C)	12	15	18	%
Input Current	I_{IN}	$V_{IN} = 120VAC$			0.160	A
Total Power output	P_{OUT}				10	W
Efficiency		I_o at rated load, $V_{IN} = 120VAC$		80		%
Output Voltage Range	V_o	At rated load current – Adjusted at Exclara	15		21	V
Output Current ³	I_o			500		mA
Analog Dimming Resolution		% of rated output current	5		100	%

Notes:

1. Contact Exclara for other output current set-points.
2. Current regulation is guaranteed between 100VAC ~132VAC.

Key Environmental Characteristics

Parameter	Value
Storage Temperature	-40°C – 85°C
Ambient Temperature (Max) T_c	70°C
MTBF	<td>
Operational Life	45K hours @ 40°C
Humidity	5% - 95% non-condensing
Sound	Class A
Vibration	IEC60068-2-64; IEC60068-2-6
ROHS Compliant	Yes

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