

Key Features & Benefits:

- Built-In Active PFC
- Waterproof IP67
- 0–10V Dimming + PWM/CLK Options
- Programmable Output Current (280–4200 mA)
- 10kV Surge Protection
- OVP / SCP / OTP Protections

Project: _____

Date: _____

Catalog #: _____

Notes: _____



Input Characteristics:

PARAMETER	MIN.	TYP.	MAX.	NOTES
Rated AC Input Range	100 VAC		277 VAC	
AC Input Range	90 VAC		305 VAC	
Input Frequency Range	47 Hz	50/60 Hz	63 Hz	
Max Input Current			1.9 A	100 VAC, full load
Max Input Power			180 W	100 VAC, full load
Max Inrush Current (277 VAC)			100 A	Cold start
Max Inrush Current (347 VAC)			125 A	Cold start
Max Inrush Current (480 VAC)			150 A	Cold start
No-Load Power			0.5 W	220 VAC / 50 Hz, Dim to off or Enable STB
Power Factor	0.95	0.97		220 VAC / 50 Hz, full load
	0.90			100–277 VAC / 50 Hz, 70–100% load
THD		8%	10%	220 VAC / 50 Hz, full load
			20%	100–277 VAC / 50 Hz, 70–100% load

Output Characteristics:

PARAMETER	MIN.	TYP.	MAX.	NOTES
O/P Voltage Range	22 V		56 V	Power derated @ 22–36 V
Rated O/P Voltage	36 V		56 V	Po = Vo × Io = 150 W, full load
Rated O/P Current	2.7 A		4.2 A	4.2 A for 36 V, 2.7 A for 56 V
Adj. O/P Current (AOC) Range	0.35 A		4.2 A	By Programming
No-Load Voltage			60 V	
Efficiency @ 277 VAC	87.0%	88.0%		Output 36 V / 4.2 A
Efficiency @ 347 VAC	90.5%	91.5%		Output 36 V / 4.2 A
Efficiency @ 480 VAC	91.0%	92.0%		Output 36 V / 4.2 A
O/P Current Tolerance	-5%		+5%	
O/P Current Ripple (PK-AV)		5%	10%	Full load
Start-up Current Overshoot			10%	Full load
Start-up Time			0.5 S	120 VAC, full load
			0.5 S	220 VAC, full load
Line Regulation	-2%		+2%	Full load
Load Regulation	-2%		+2%	
Temperature Coefficient	-0.03%/°C		+0.03%/°C	Tc: 0–90 °C
OTP	90 °C	100 °C	110 °C	> Tc Typ.: current derating; < Tc Min.: current recovery
Short Circuit Protection			10 W	Driver will not be damaged, Hiccup mode

Other Characteristics:

PARAMETER	MIN.	TYP.	MAX.	NOTES
AUX Power	O/P Voltage	10.8 V	12 V	13.2 V
	O/P Current	0 mA		200 mA
0-10 V Dimming	Dim Vmax	0 V		12 V
	Dim Range	10% loset		100% loset
	Rec. Dim Range	0 V		10 V
PWM Dimming	PWM High	9.8 V		10.2 V
	PWM Low	0 V		0.3 V
	Frequency	1 kHz		2 kHz
	PWM Duty	0%		100%
Resistor Dimming	Resistance	0 kΩ		100 kΩ
	Dim Range	10%		100%
Dim to Off	Dim-off	7%	8%	9%
	Dim-on	8%	9%	10%
Timing Curve	By programming			Legacy timer / auto-adjust by % or mid-point
Lifetime (Tc ≤ 65 °C)	100,000 hours			80% load
Lifetime (Tc ≤ 75 °C)	71,000 hours			80% load
MTBF	198,200 hours			220 VAC, full load, Ta = 25 °C (MIL-HDBK-217F)
IP Grade	IP67			
Tc	90 °C			
Warranty	8 years			Tc: 75 °C
Net Weight	1,000 g (2.20 lbs)			
Dimension	209 × 71 × 39.6 mm (8.23" × 2.80" × 1.56")			L × W × H

Environmental Requirements:

PARAMETER	MIN.	TYP.	MAX.	NOTES
Operating Temperature (Tcase)	-40 °C	25 °C	+90 °C	
Storage Temperature	-40 °C	25 °C	+90 °C	
Operation Humidity	10% RH		90% RH	
Storage Humidity	5% RH		95% RH	
Altitude	-65 m		4,000 m	

Safety & EMI/EMS Standards:

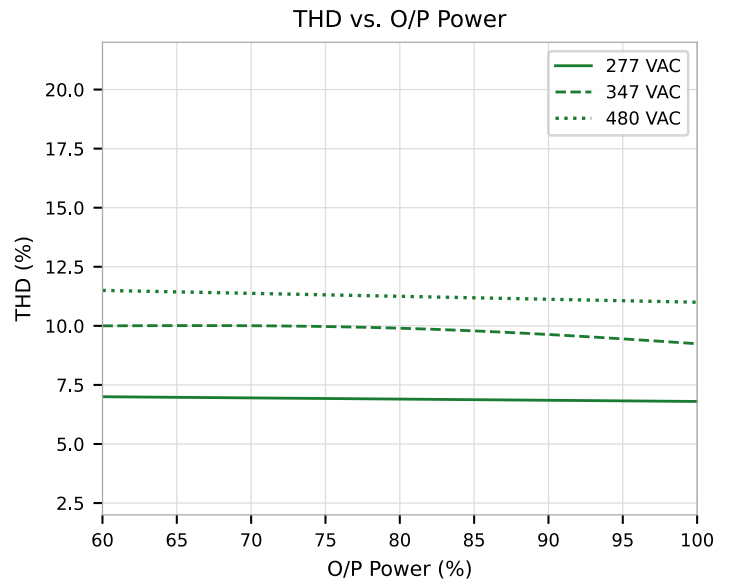
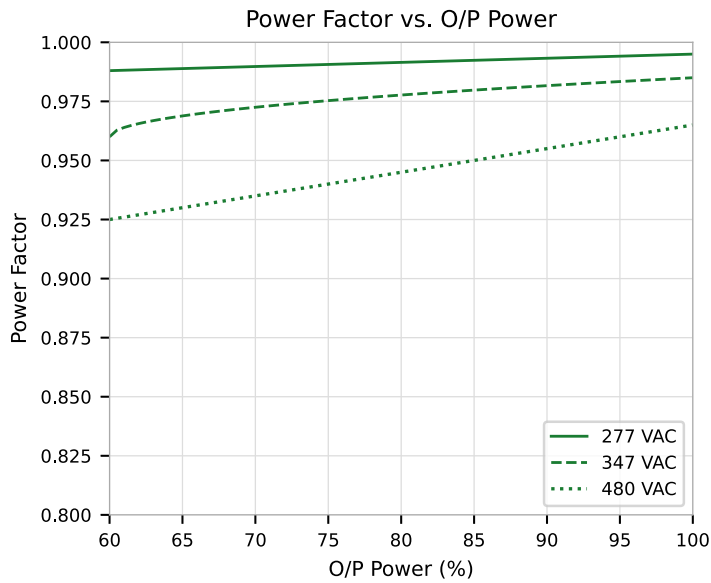
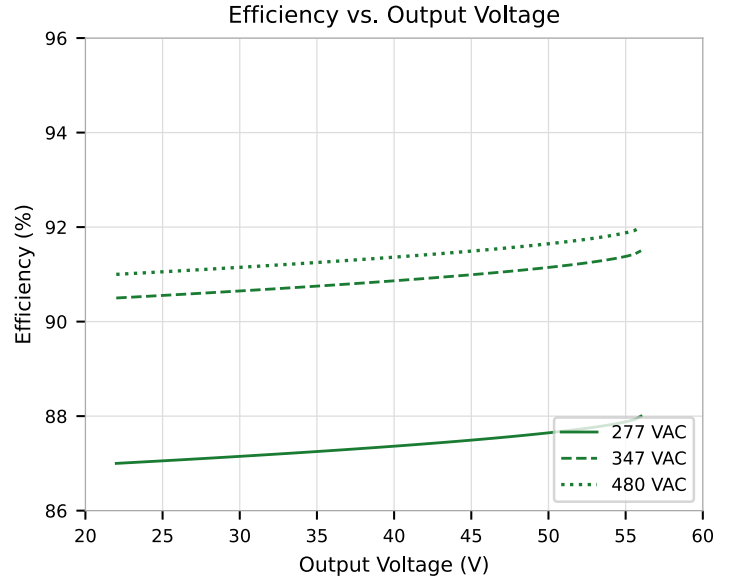
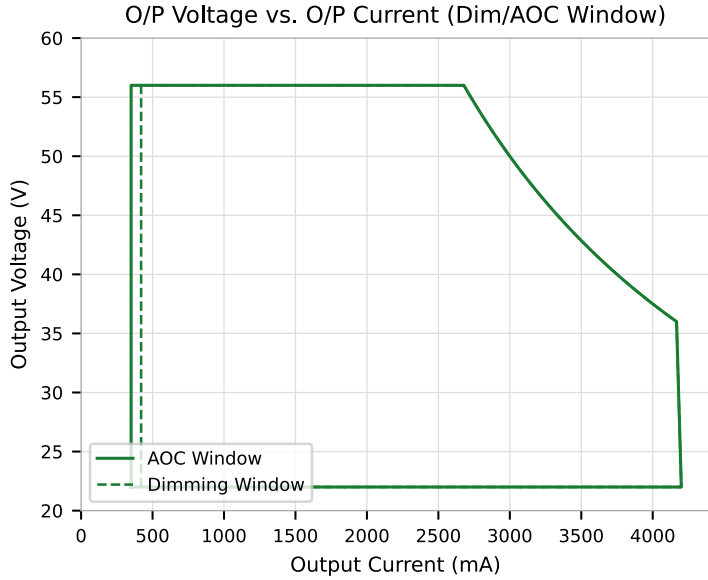
CERTIFICATION	STANDARD	STATUS	NOTES
UL / cUL	UL8750	✓	
ENEC	EN 61347-1:2015; EN 61347-2-13:2014; EN 61347-2-13:2014/A1:2017	✓	
RCM	AS/NZS 61347.2.13	✓	
BIS	IS15885:2012 Part 2 Sec 13		
CCC	GB 19510.14-2009	✓	
CE	EN 61347-2-13:2014; EN 61347-1:2008+A1:2011+A2:2013	✓	

EMI/EMS	STANDARD	RESULT
Conduction Emission	EN 55015:2013+A1:2015; FCC Part 15 Subpart B (ANSI C63.4:2014)	Class B
Radiation Emission	EN 55015:2013+A1:2015; FCC Part 15 Subpart B (ANSI C63.4:2014)	Class B
Harmonic Current Emissions	IEC/EN 61000-3-2	Class C
Surge	IEC/EN 61000-4-5	DM 6 kV, CM 10 kV, Criterion B
Ring Wave	IEC/EN 61000-4-12	DM 6 kV, CM 6 kV, Criterion B

SAFETY TEST ITEM	TECHNICAL INDICATOR	NOTES
Insulation Resistance	≥ 10 MΩ	Input-Output, 500 VDC test
Ground Resistance	≤ 0.1 Ω	25 A / 1 min
Leakage Current	≤ 0.75 mA	277 VAC

Performance Curves:

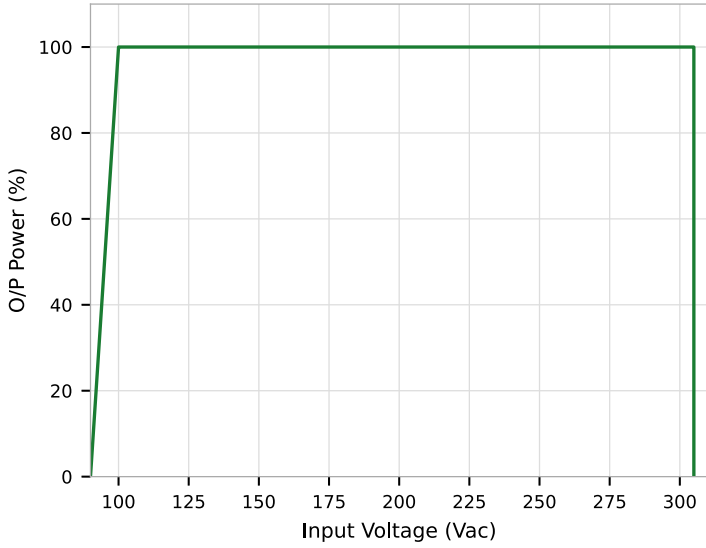
Representative curves for the 150 W / 56 V / 4200 mA configuration.



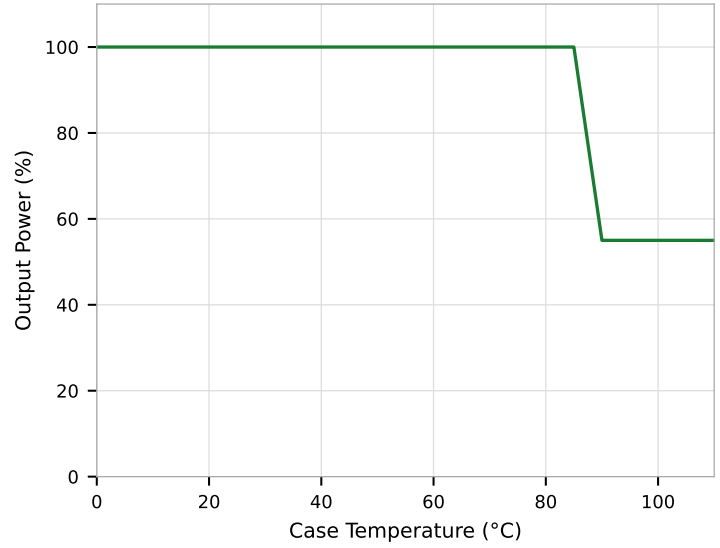
Performance Curves:

Representative curves for the 150 W / 56 V / 4200 mA configuration (continued).

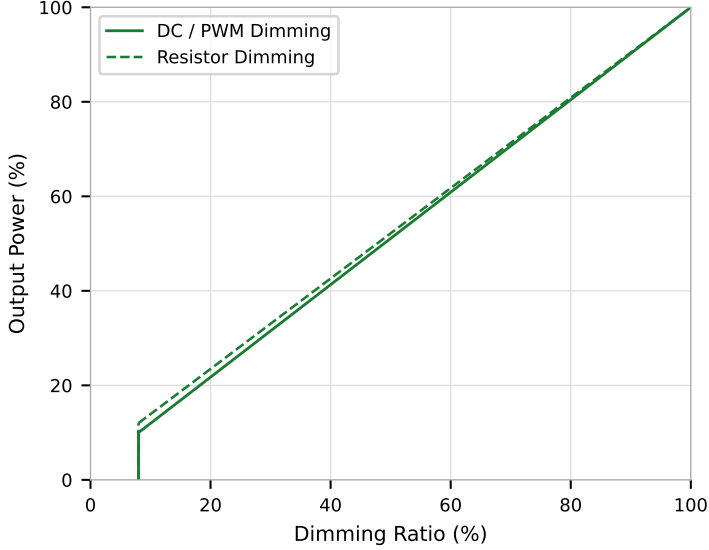
O/P Power vs. Input Voltage (Ta Max. 60 °C)



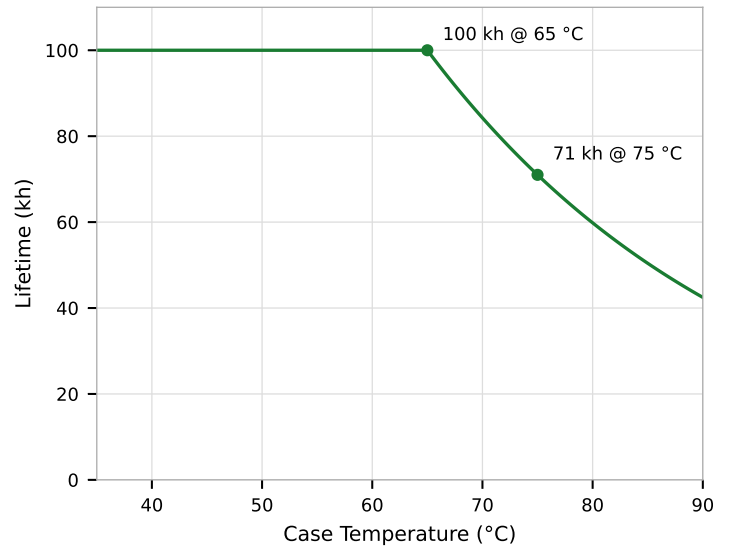
O/P Power vs. Case Temperature



O/P Power vs. Dimming Signal



Lifetime vs. Case Temperature (80% Load)



Dimensions:

