

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	277 VAC		480 VAC	
AC Input Range	249 VAC		528 VAC	
Input Frequency Range	47 Hz	50/60 Hz	63 Hz	
Max Input Current			1.6 A	277 VAC, full load
Max Input Power			175 W	277 VAC, full load
Max Inrush Current (277 VAC)			50 A	Cold start
Max Inrush Current (347 VAC)			70 A	Cold start
Max Inrush Current (480 VAC)			90 A	Cold start
No-Load Power			1.5 W	347 VAC / 60 Hz
Power Factor	0.93	0.95		347 VAC / 60 Hz, full load
	0.90			277–480 VAC, 80–100% load
THD		7%	10%	347 VAC / 60 Hz, full load
			20%	277–480 VAC, 80–100% 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	Adjustable by program
No-Load Voltage			60 V	
Efficiency @ 277 VAC	89.0%	90.0%		O/P 56 V / 2.7 A
Efficiency @ 347 VAC	89.0%	91.0%		O/P 56 V / 2.7 A
Efficiency @ 480 VAC	89.0%	90.0%		O/P 56 V / 2.7 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	277 VAC, full load
			0.5 s	347 VAC, full load
Line Regulation	-1%		+1%	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			15 W	Driver undamaged, constant current mode



Other Characteristics:

PARAMETER	MIN.	TYP.	MAX.	NOTES
AUX Power	O/P Voltage	11.5 V	12 V	12.5 V
	O/P Current			300 mA Operate max 15 min at 400 mA
0-10 V Dimming	Dim Vmax	0 V		12 V Negative dimming by programming
	Dim Range	10% loaset		100% loaset DIM+ source current 110 µA
	Rec. Dim Range	0 V		10 V Dimming prohibits reverse connection
PWM Dimming	PWM High	9.8 V		10.2 V Negative dimming by programming
	PWM Low	0 V		0.3 V DIM+ source current 110 µA
	Frequency	1 kHz		2 kHz Dimming prohibits reverse connection
	PWM Duty	0%		100%
Resistor Dimming	Resistance	0 kΩ		100 kΩ Negative dimming by programming
	Dim Range	10%		100% DIM+ source current 110 µA
Dim to Off	Dim-off	7%	8%	9% By DC / PWM / resistance dimming ratio
	Dim-on	8%	9%	10% By DC / PWM / resistance dimming ratio
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)	62,000 hours			80% load
MTBF	198,000 hours			347 VAC, full load, Ta = 25 °C (MIL-HDBK-217F)
IP Grade	IP67			
Tc	90 °C			
Warranty	5 years			Tc: 75 °C
Net Weight	1,100 g (2.43 lbs)			
Dimension	221 × 71 × 39.6 mm (8.70" × 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:

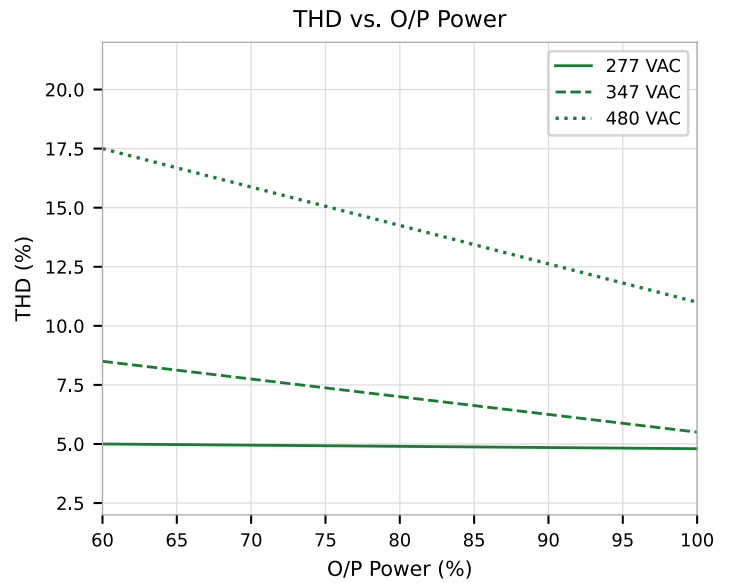
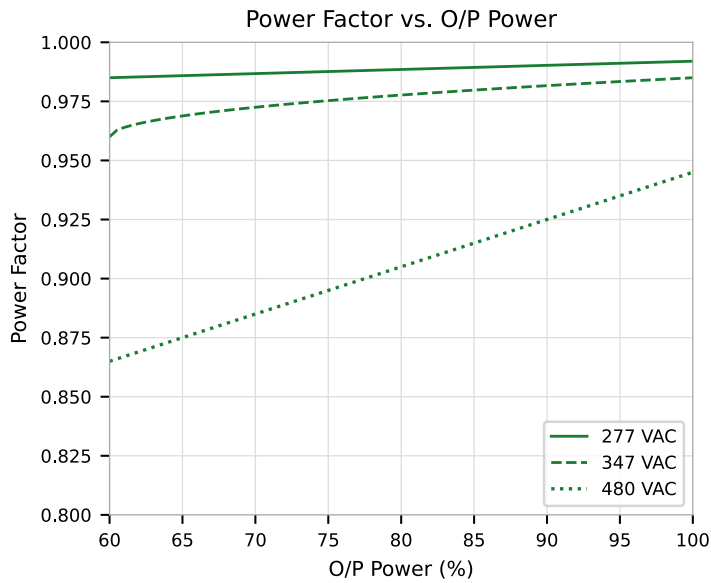
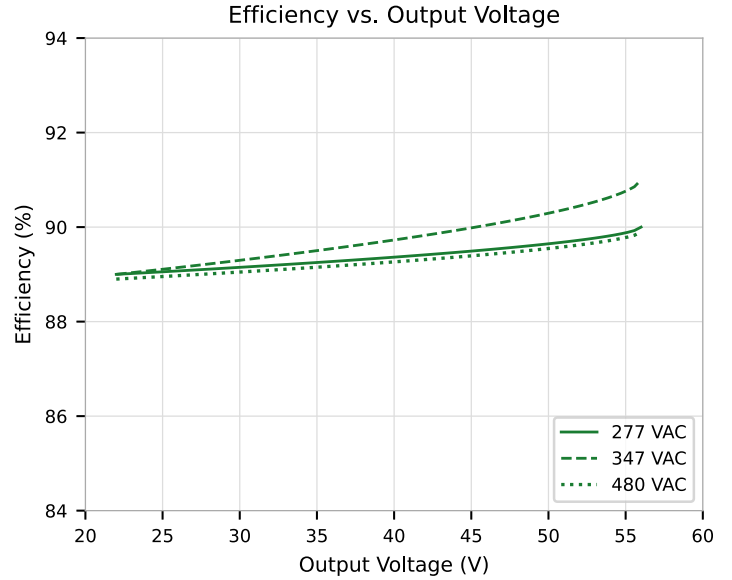
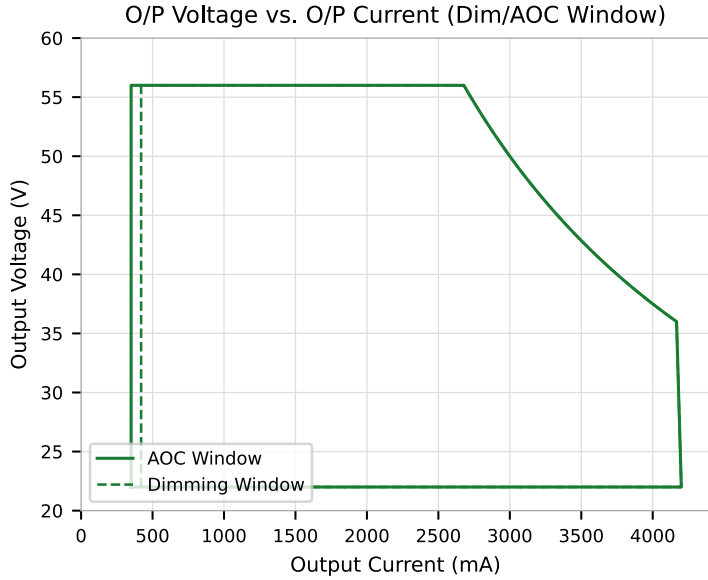
CERTIFICATION	STANDARD	STATUS	NOTES
UL / cUL	UL8750	✓	
TUV	EN 61347-2-13:2014/A1:2017; EN 61347-1:2015; EN 62493:2015		
RCM	AS/NZS 61347.2.13		
CCC	GB 19510.14-2009		
CE	EN 61347-2-13:2014; EN 61347-1:2008+A1:2011+A2:2013		

EMI/EMS	STANDARD	RESULT
Conduction Emission	FCC Part 15 Subpart A (ANSI 63.4:2014)	Class A
Radiation Emission	FCC Part 15 Subpart A (ANSI 63.4:2014)	Class A
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 10 kV, Criterion B

SAFETY TEST ITEM	TECHNICAL INDICATOR	NOTES
Insulation Resistance	≥ 10 MΩ	Input-O/P, 500 VDC test
Ground Resistance	≤ 0.1 Ω	25 A / 1 min
Leakage Current	≤ 0.75 mA	480 VAC

Performance Curves:

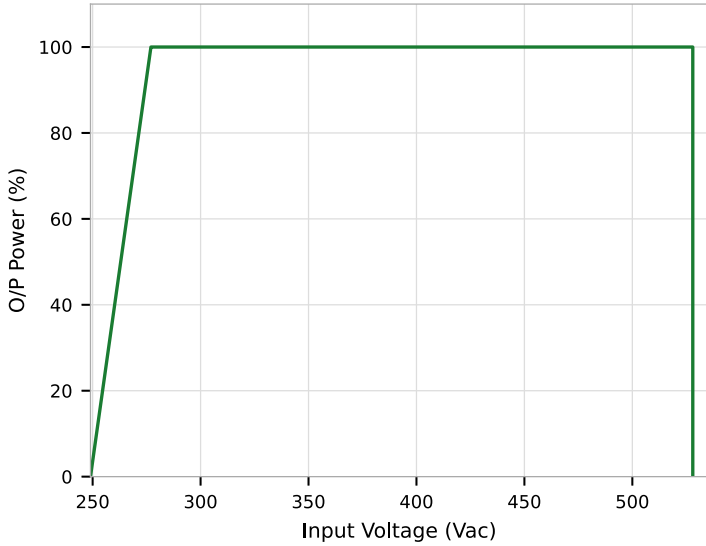
Representative curves for the 150 W / 56 V / 4200 mA configuration.



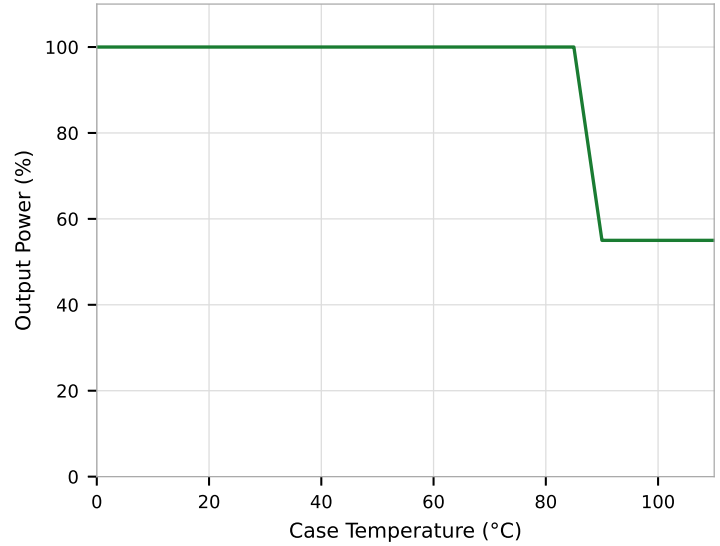
Performance Curves:

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

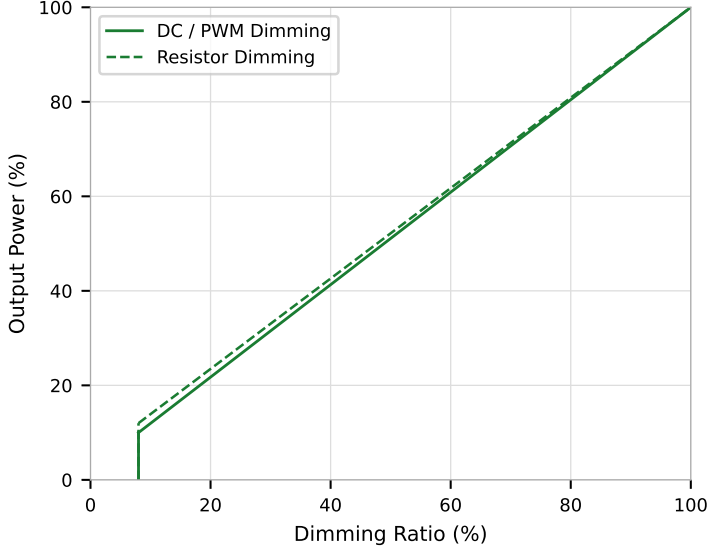
O/P Power vs. Input Voltage (Ta Max. 60 °C)



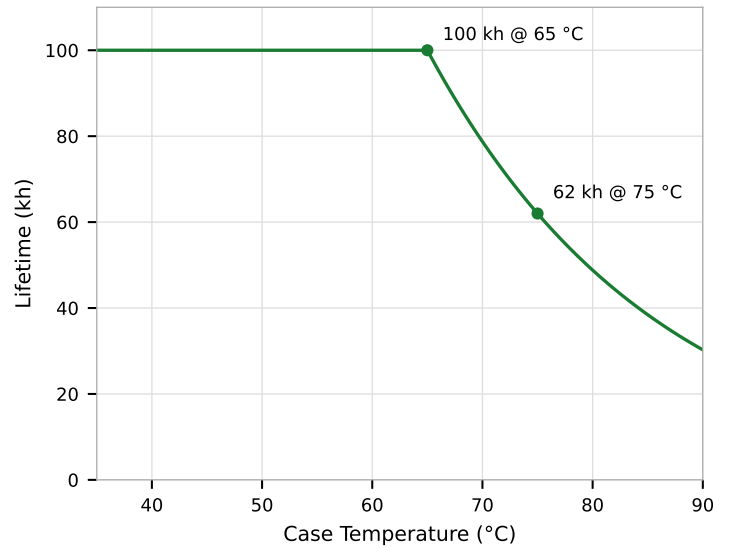
O/P Power vs. Case Temperature



O/P Power vs. Dimming Signal



Lifetime vs. Case Temperature (80% Load)



Dimensions:

