

ADJUSTABLE CONSTANT CURRENT LED DRIVER XLC30 PROGRAMMABLE SPECIFICATIONS SHEET

ELECTRICAL SPECIFICATIONS

Input		
Input Voltage (VAC)	120-277V (+/-10%)	
Frequency Range (Hz)	50-60Hz	
	120V	277V
Input Current (A)	0.30	0.13
THD @ Full Load	<10%	<15%
Power Factor @ Full Load	>0.95	>0.90
Efficiency @ Full Load	>85%	>85%
Inrush Current (Apk)	4.14	2.72
Output		
Output Current (mA)	350 - 1250mA	
Output Voltage (VDC)	10 - 55V	
Output Ripple Current (mA)	300mA	
Maximum Output Power (W)	30W	
LED Power Up Time	<1sec	
Load Regulation	<3%	
Line Regulation (Max Load)	<3%	
Over Voltage Protection	Yes, Auto Recovery	
Over Load Protection	Yes, Auto Recovery	
Output Short-Circuit Protection	Yes	
Over Temperature Protection	Foldback at 100°C	
Auxiliary Output	12V, 100mA ¹	

¹ Class P units Only



GENERAL INFORMATION

Order Numbers	Type TL: XLC30-1250Z-UNV-I Class P: XLC30-1250Z-UNV-I-P
Type	Constant Current, Class 2
Output Power	30W (Maximum)
Programming Method	I-LOC Keys

DIMMING

Dimming Control	0-10V Dimming
Dimming Range	Dims to 1%
Dimming Input Isolation	2.5kV
Source Current (Max)	1.2mA

ENVIRONMENTAL SPECIFICATIONS

Minimum Operating Temperature	-30°C
Maximum Case Temperature (Tc)	90°C*
Maximum Storage Temperature	70°C
Maximum Relative Humidity (%)	85%, non-condensing
Transient Protection	NEMA SSL1-2010 Non-Roadway 2.5kV
UL Environment Rating	Dry & Damp
UL File Number	E341915
EMI Compliance	FCC Part 15 Class A
Sound Rating	Class A

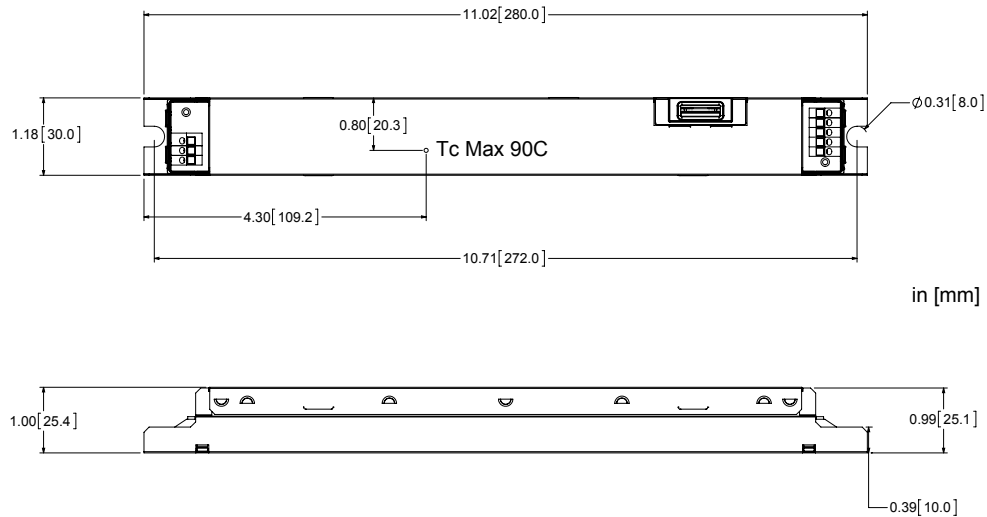
*80°C Maximum Case Temperature for Warranty Purposes



WIRING

Input:	Black (L), White (N), Green (G)	Terminals
Output:	Red (+), Black (-)	Terminals
Dimming:	Purple (+), Grey (-)	Terminals
Auxiliary ¹ :	Yellow (12V, 100mA)	Terminal
Notes: Use solid copper wire only (16-24 AWG) Strip length 3/8"		
¹ Class P units Only		

DIMENSIONS



Always confirm fit with a physical sample.
Specifications subject to change.

PACKAGING INFORMATION

Weight: 0.70 lbs

Quantity: 50pc/carton

PROGRAMMABILITY

Hatch I-LOC Technology enables quick and easy setting of driver output current with the simple click of a key. Select the appropriate I-LOC key for the desired output current and click it into the driver.

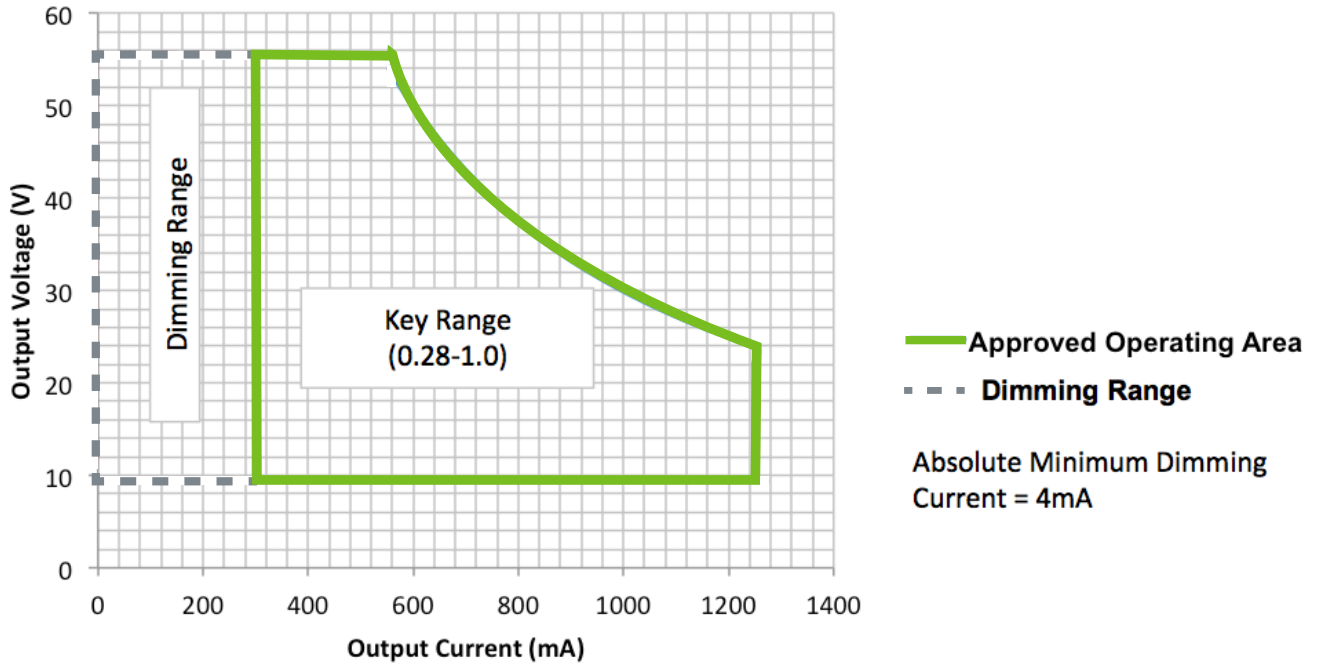
The keys are **Interchangeable** across the Hatch I-LOC LED Driver product family and have a 28% to maximum output range. The 0.28 to 0.48 keys are designed exclusively for the Linear I-LOC family.

Drive Factor	Part Number	Max Output mA	Voltage Range V	Max Output W
1.00	XA100	1250	10-24	30
0.98	XB098	1225	10-24	30
0.95	XC095	1188	10-25	30
0.93	XD093	1163	10-25	30
0.90	XE090	1125	10-26	30
0.88	XF088	1100	10-27	30
0.85	XG085	1063	10-28	30
0.83	XH083	1038	10-28	30
0.80	XI080	1000	10-30	30
0.78	XJ078	975	10-30	30
0.75	XK075	938	10-31	30
0.73	XL073	913	10-32	30
0.70	XM070	875	10-34	30
0.68	XN068	850	10-35	30
0.65	XO065	813	10-36	30

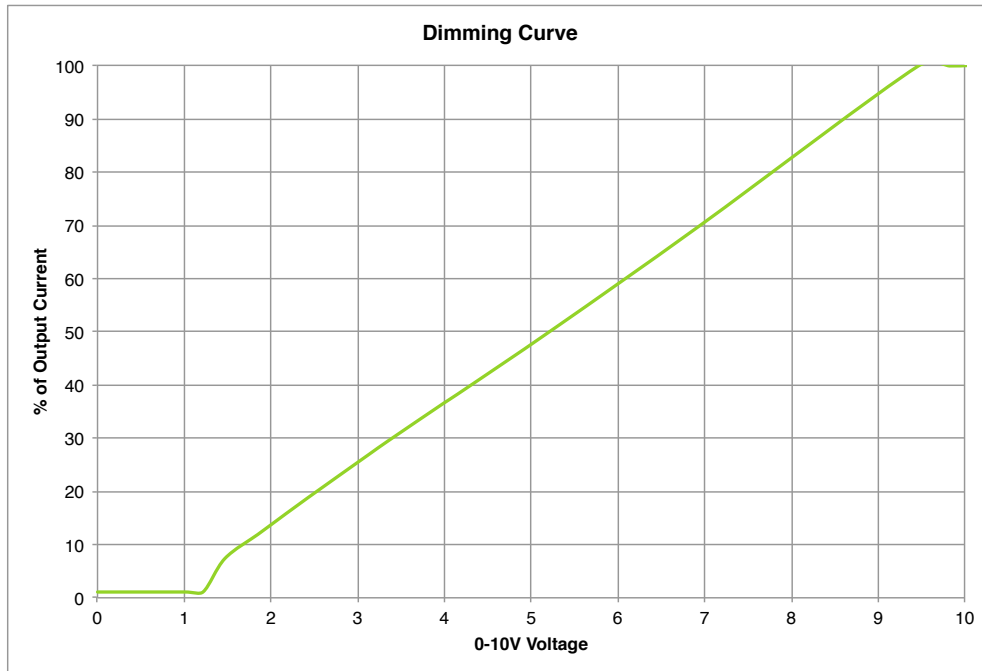
Drive Factor	Part Number	Max Output mA	Voltage Range V	Max Output W
0.63	XP063	788	10-38	30
0.60	XQ060	750	10-39	30
0.58	XR058	725	10-41	30
0.55	XS055	688	10-43	30
0.53	XT053	663	10-45	30
0.50	XU050	625	10-48	30
0.48	XLA048	600	10-50	30
0.45	XLB045	563	10-53	30
0.43	XLC43	538	10-55	30
0.40	XLD040	500	10-55	28
0.38	XLE038	475	10-55	27
0.35	XLF035	438	10-55	25
0.33	XLG033	413	10-55	23
0.30	XLH030	375	10-55	21
0.28	XLI028	350	10-55	20

Adjusted Output Current
Tolerance +/- 3%

OPERATING RANGE

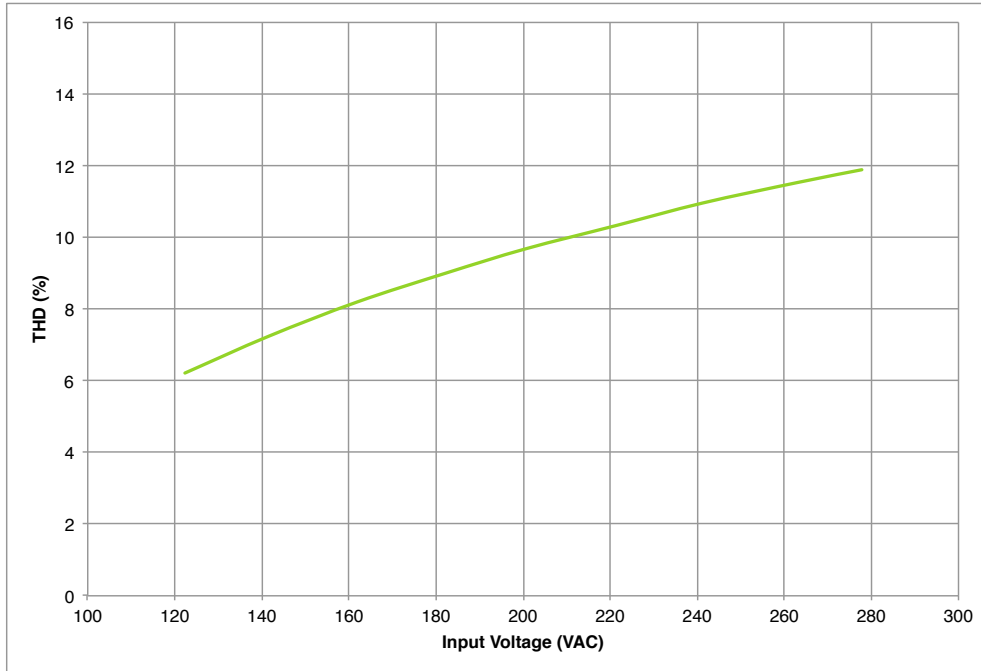


DIMMING

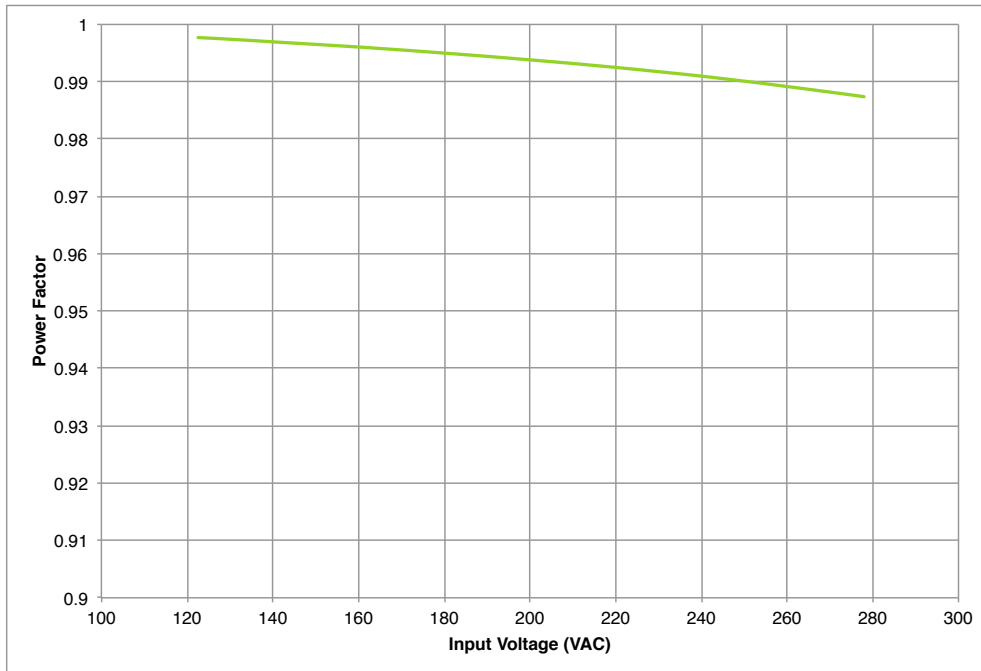


I-LOC Linear drivers dim to 1% of the adjusted output current.

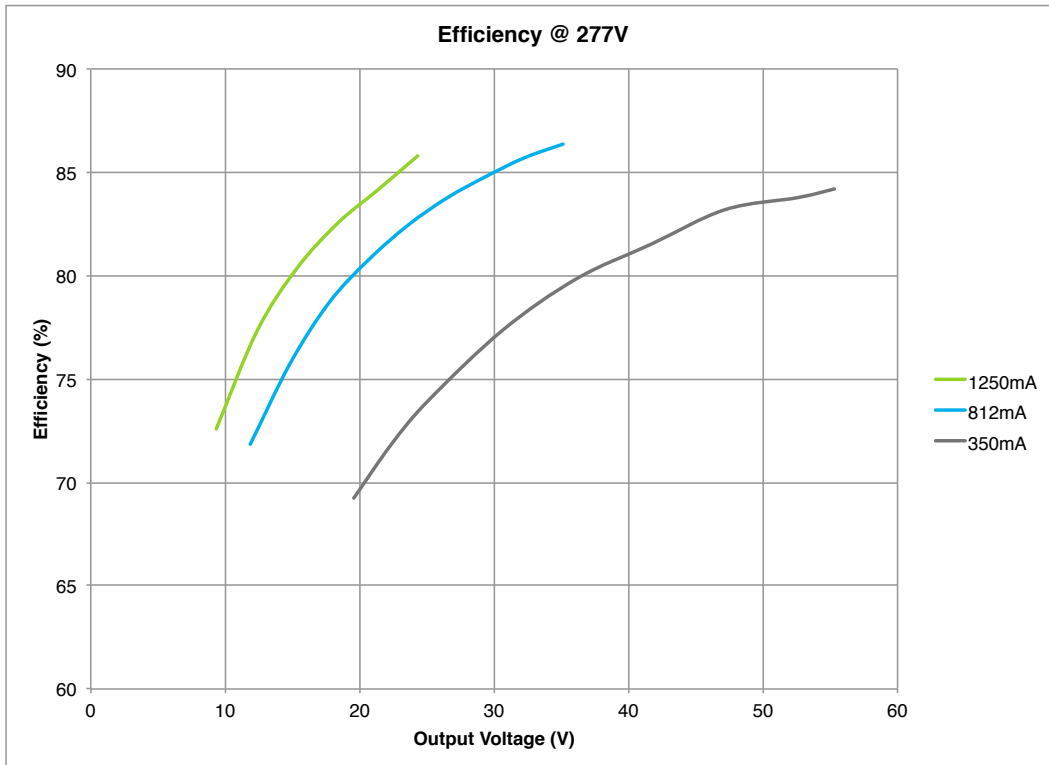
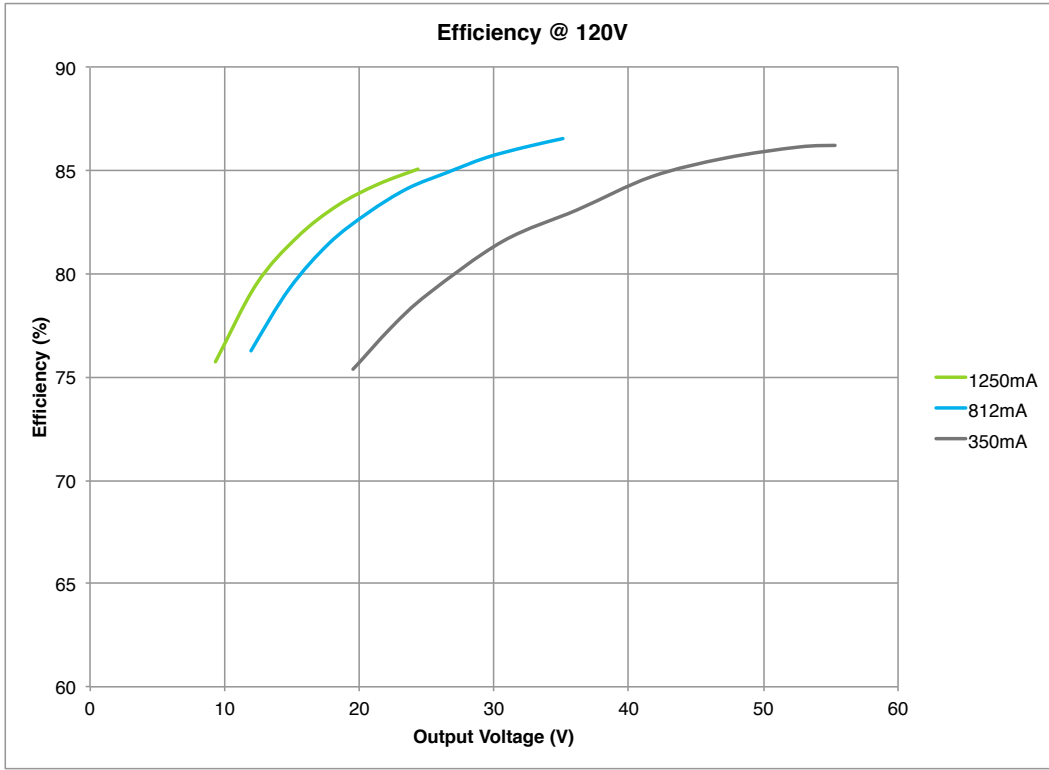
THD VS. INPUT VOLTAGE (FULL LOAD)



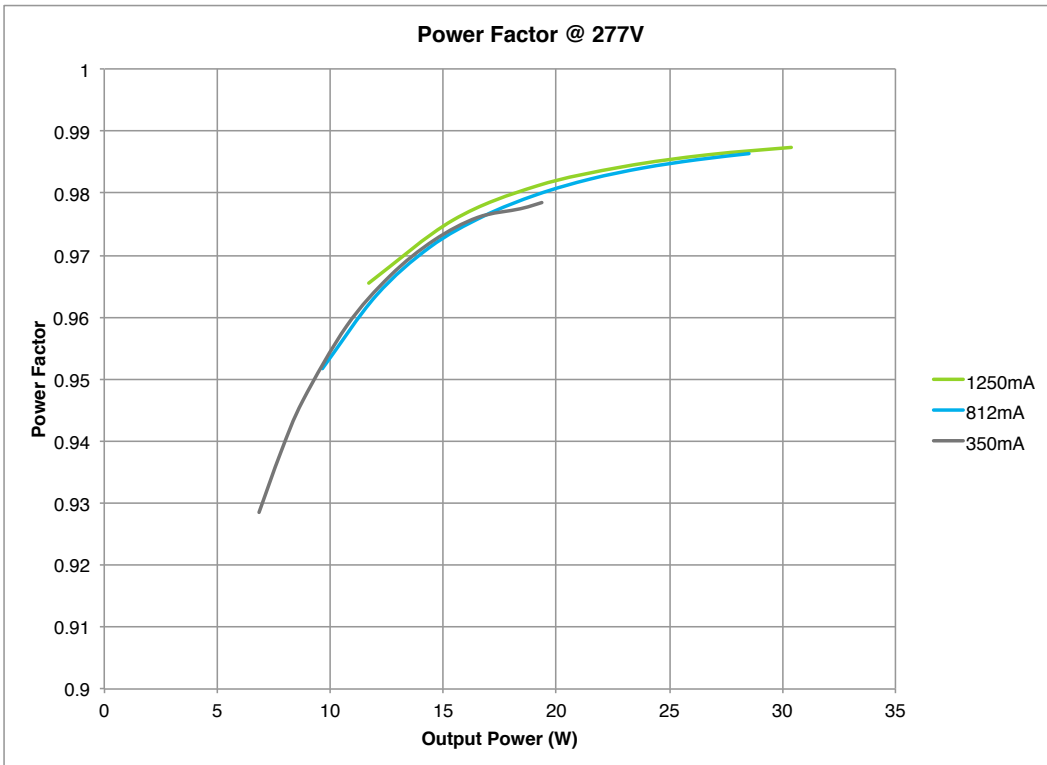
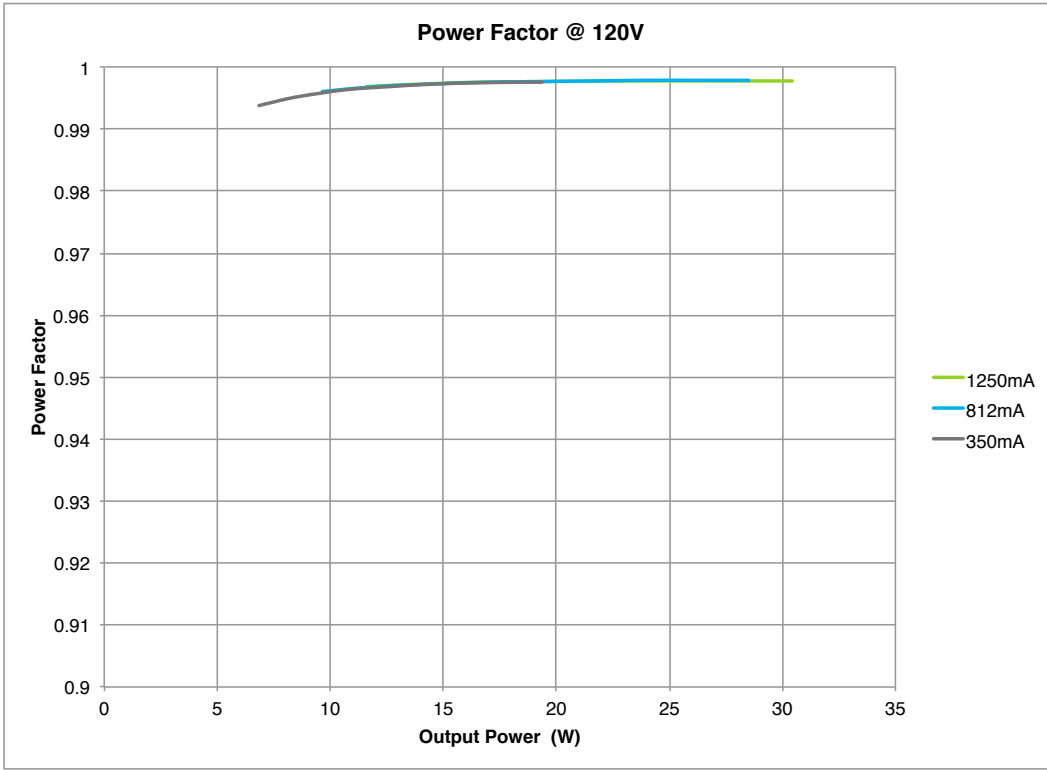
POWER FACTOR VS. INPUT VOLTAGE (FULL LOAD)



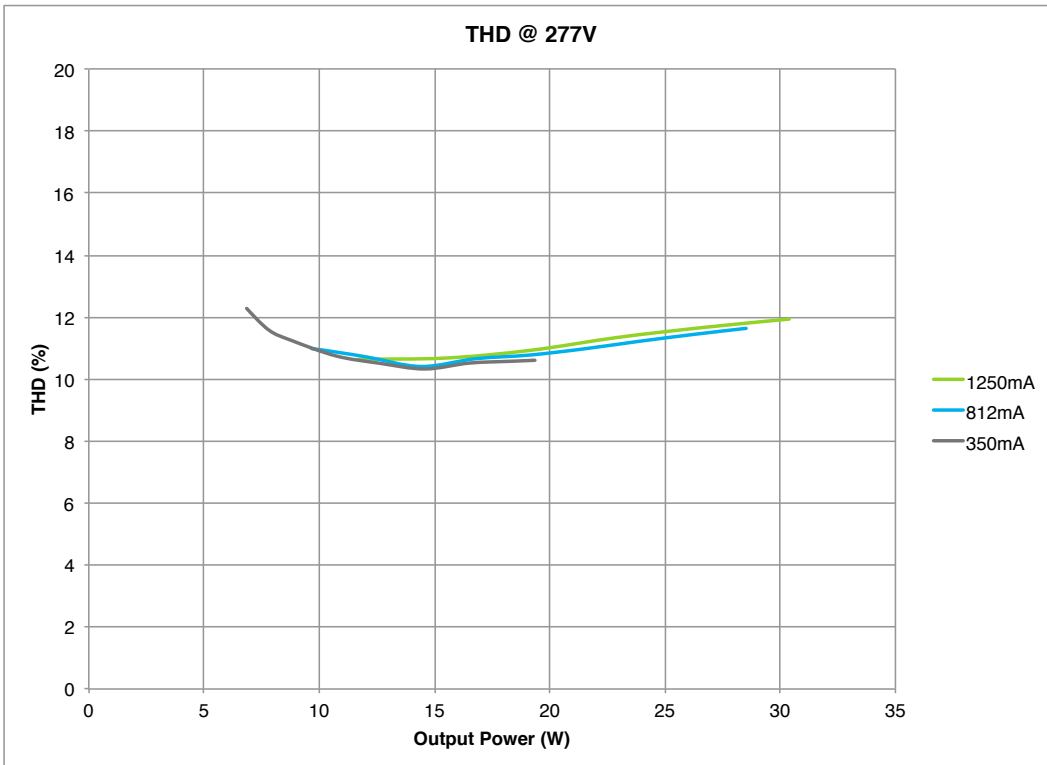
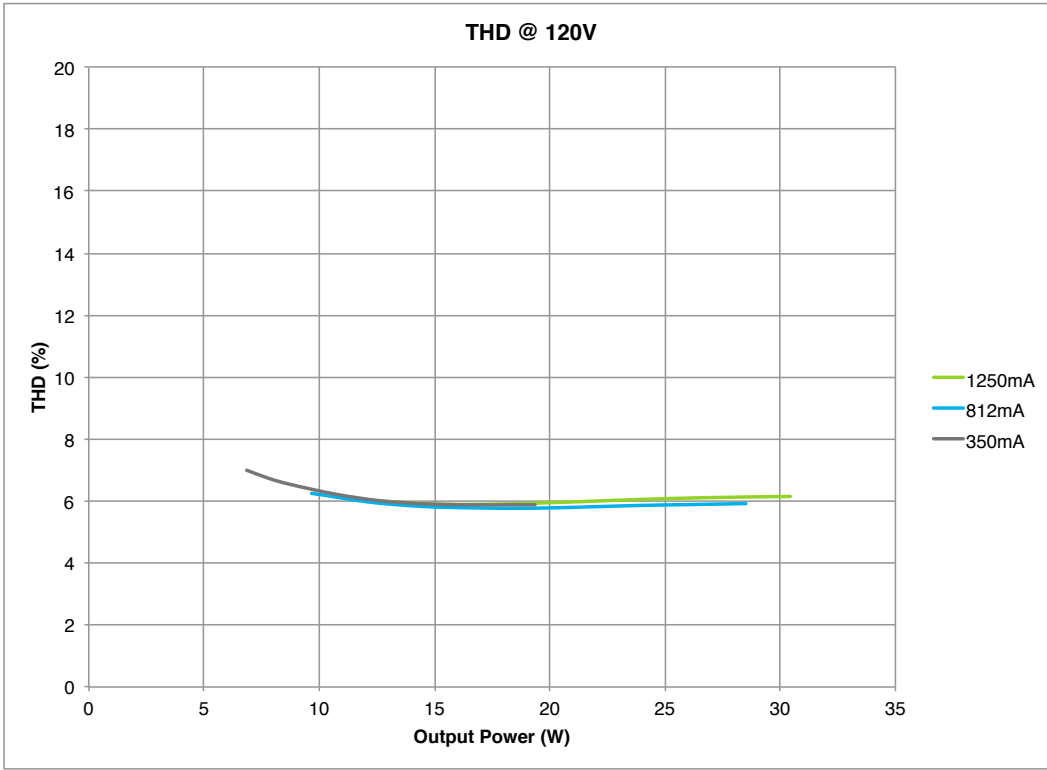
EFFICIENCY VS. OUTPUT VOLTAGE



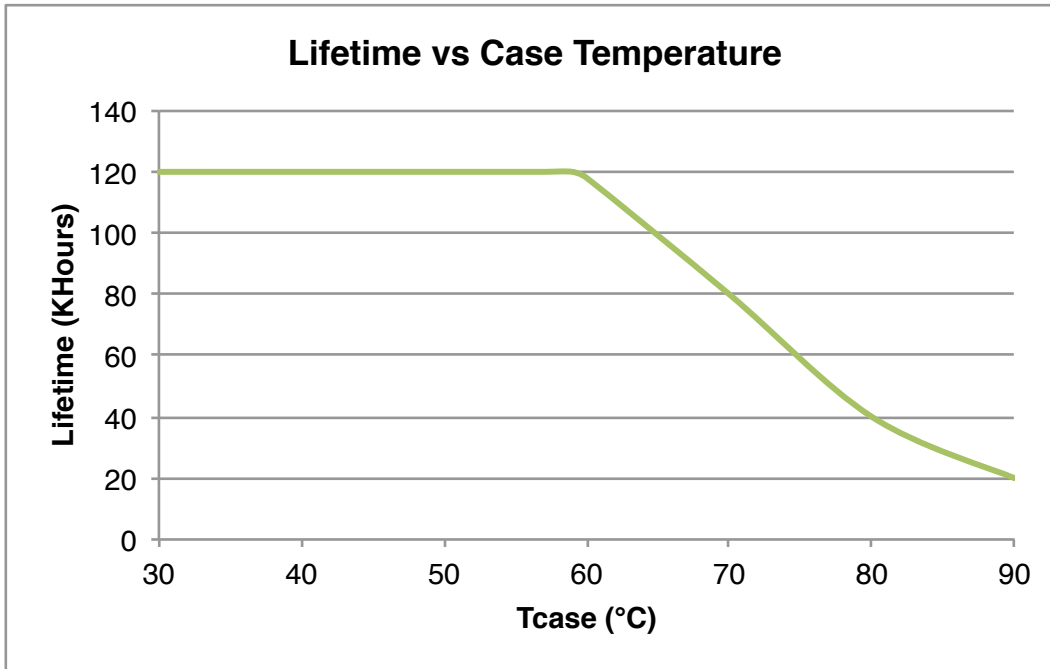
POWER FACTOR VS. LOAD



THD VS. LOAD



LIFETIME (FULL LOAD)



TL INFORMATION

Model Number	Tref Max	Measured Tref @ 40°C Ambient Temperature
XLC30-1250Z-UNV-I	90°C	47°C

INRUSH CHARACTERISTICS

Input Voltage Vin (Vrms)	Ipk (A)	T 50%pk (uS)
120	4.14	19
277	2.72	43