



FLX - BOX96 24V / 48V

PRODUCT FEATURES

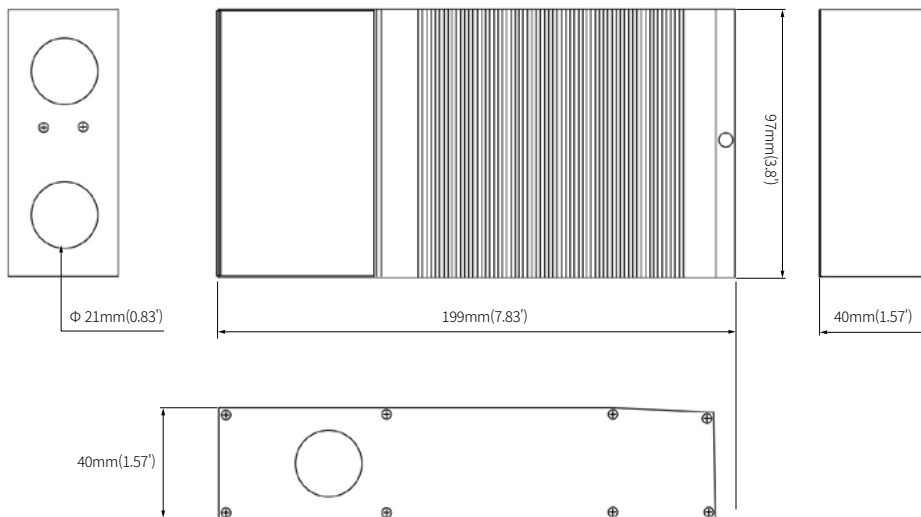
- Universal AC input voltage 100-277VAC
- Efficiency up to 90%
- High power factor, $PF \geq 0.95$
- Single channel & constant voltage mode
- switch to PWM or Voltage Reduction output selectable
- Protection : OCP, OVP, SCP, OTP
- Limited Power Source
- UL/cUL Class 2, Class P, Type HL Listed
- 5 in 1 dimming : (0-10V, 1-10V, TRIAC, 10V PWM, resistance)
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers with seamless dimming performance
- Flicker free
- Typical lifetime > 50000 hours
- 5 years warranty
- NEMA 3R Rated Enclosure for Indoor and Outdoor Use

MODELS



Model Number	Output Voltage	Rated Output Current	Input Voltage Range	Input Current	Max. Output Power	Typical Efficiency
FLX-BOX96-24V	24 VDC	4.0 A	100~277 V	≤ 1.2 A	96 W	91.56 %
FLX-BOX96-48V	48 VDC	2.0 A	100~277 V	≤ 1.2 A	96 W	92.56 %

DIMENSION



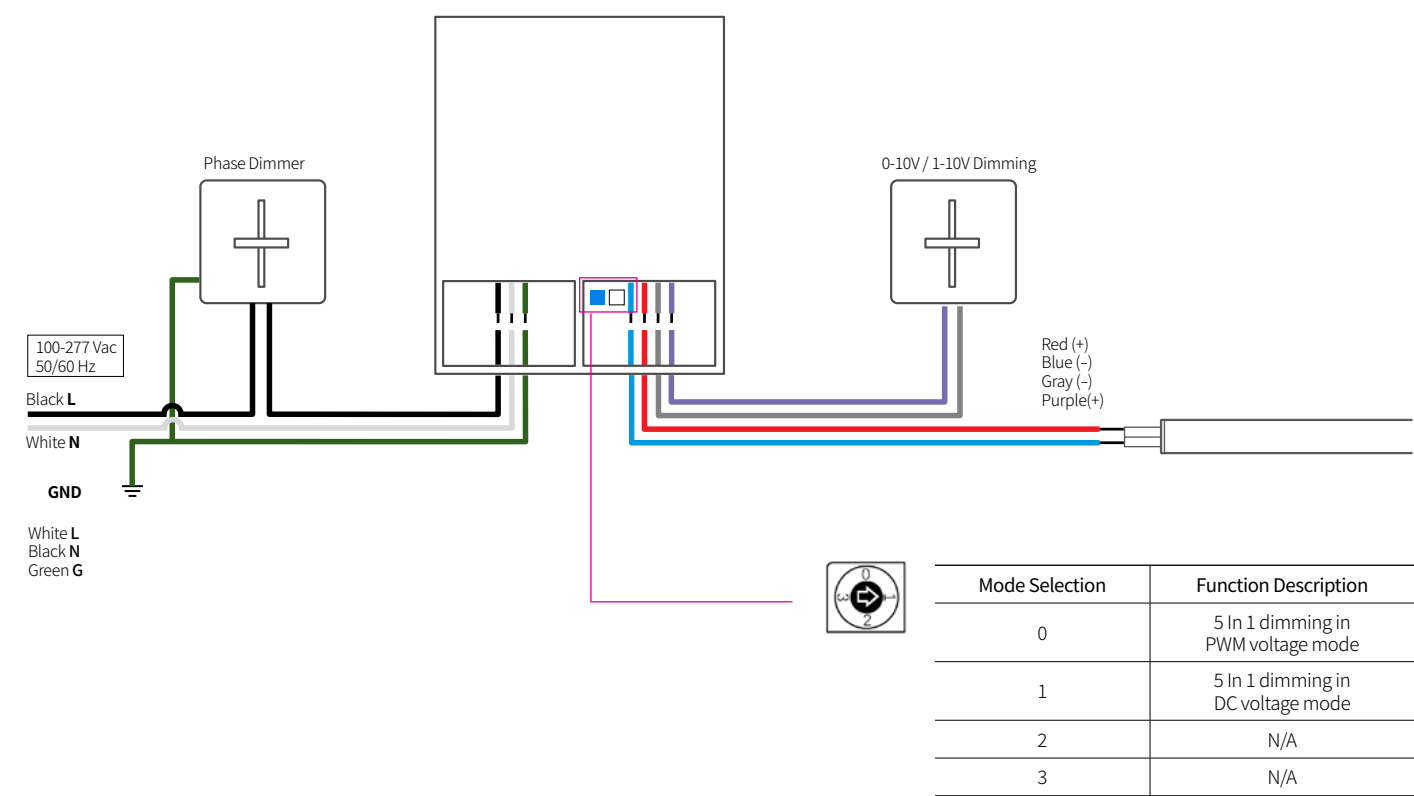
Note.

AC Input Cord	UL SJTW #18AWG 3*0.82mm ² , ΦD:7.8mm; Green: Ground, Black: L, White: N
DC Output Cord	UL SJTW #18AWG 2*0.82mm ² , ΦD:7.8mm; Red: V+, Blue: V-, Yellow:V-
Signal Cord	UL SJTW #18AWG 2*0.82mm ² ; Gray Dim-, Purple Dim+

SPECIFICATION

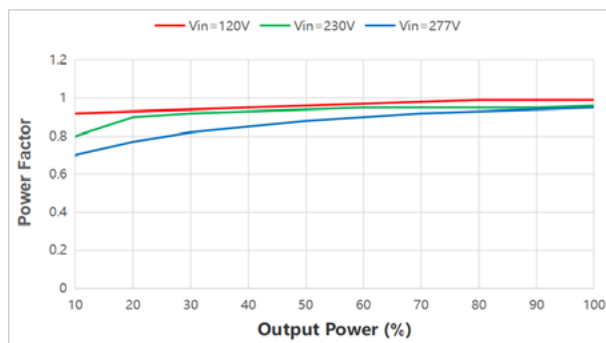
Model		FLX-BOX96-24V	FLX-BOX96-48V	
Output	Output Voltage	24 V	48 V	
	Rated current	4.0 A	2.0 A	
	Rated power	96 W	96 W	
	Ripple & Noise (max.) Only for dc voltage mode	250 mvp-p	250 mvp-p	
	Voltage accuracy	± 2.0 %	± 2.0 %	
	Linear adjustment rate	± 0.5 %	± 0.5 %	
	Load adjustment rate	± 0.5 %	± 0.5 %	
	Start, rise time	1000ms, 100ms/230VAC, 1100ms, 100ms/115VAC		
	Hold time	10ms/115VAC, 230VAC		
Input	Voltage range		100 ~ 277 VAC	
	Frequency range		47 ~ 63 Hz	
	Power factor		PF ≥ 0.98 / 115 VAC, PF ≥ 0.95/230 VAC , PF ≥ 0.9 / 277 VAC, Full load	
	Total harmonic distortion		THD < 20% (@ load ≥ 50 %/115 VC, 230 VAC ; @ load ≥ 75 % / 277 VAC)	
	Efficiency	Vin: 115VAC	≥ 90.78 %	≥ 91.78 %
		Vin: 230VAC	≥ 91.56 %	≥ 92.56 %
	AC current		1.2 A	
	Inrush current		Cold start 75A(width=350us measured at 50% I peak)/230Vac	
	Leakage current		< 1mA	
	No load/ standby power consumption		< 5.5 W	
Protection	Over current	95 ~ 110 %		
		95 ~ 110% Constant current limit, load abnormal condition can be removed after automatic recovery		
	Short circuit	Burp mode, load abnormal conditions can be removed after automatic recovery		
	Insulation voltage	26 ~ 32 V	52 ~ 63V	
		Turn off the output voltage, restart and resume		
	Over temperature	Turn off the output voltage, restart and resume		
Environment	Working Temp	T case = -40 ~ +50 °C (power variation refer to Ambient Temperature Curve on page 5)		
	Max.Case Temp	T case = +90 °C		
	Working Humidity	20 ~ 95 % RH, non-condensing		
	Storage Temp.,H umidity	-40 ~ +90 °C, 10 ~ 95 % RH		
	Temp.Coefficient	± 0.03 %/°C (0 ~60 °C)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72 min. each along X,Y,Z axes		
Safety & EMC	Safety standards:UL8750+UL1310			
	Withstand voltage:I/P-O/P:1.88KVac			
	Isolation resistance:I/P-O/P:100MΩ/500VDC/25°C/70%RH			
	EMC EMISSION:Confirms to FCC			

WIRING DIAGRAM

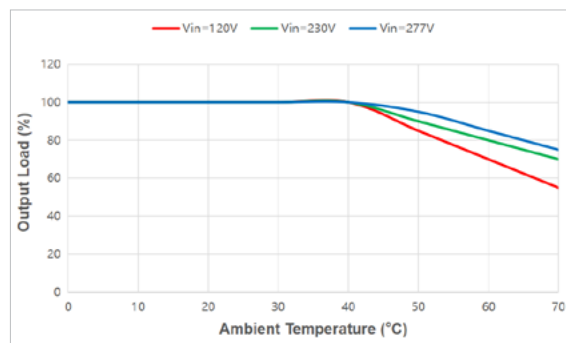


DIMMING CURVE

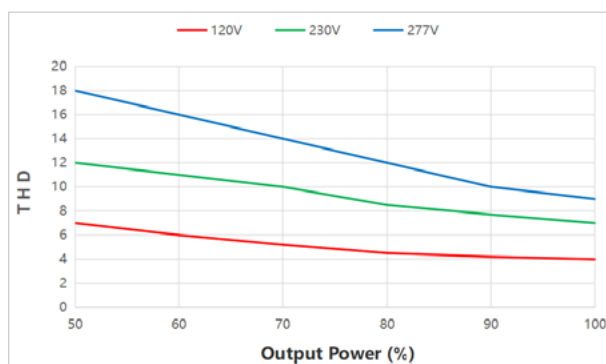
Power Factor-Output Power Curve



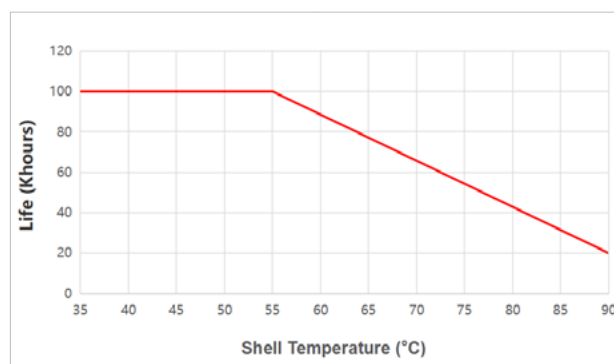
Output Load-Ambient Temperature Curve



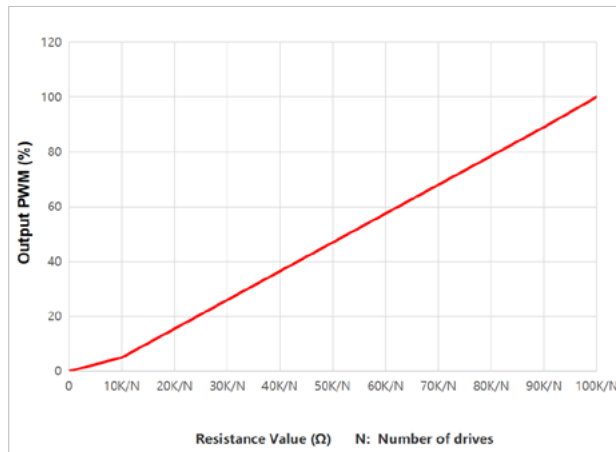
THD-Output Power Curve



Lift - Shell Temperature Curve



Resistance Dimming Curve



0-10V Dimming Curve

