

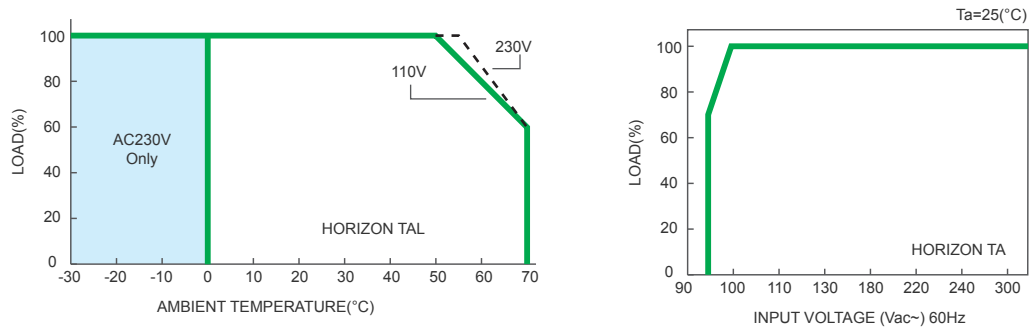
LED Driver / Power Supply BLL0100F Series

Ideal for
LED lighting
applications

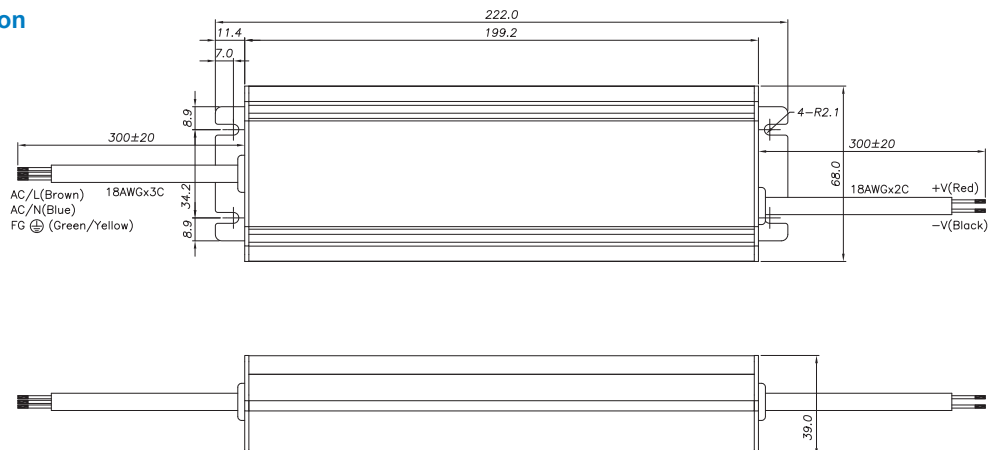
Features and Specification

- Universal AC input 90 ~ 300Vac
- Constant voltage / current operation
- Built-in active PFC function
- Protections: OVP / OCP / SCP / OTP
- IP67 compliant rugged design for high level of protection against dust and water
- Natural-convection cooling

Derating Curve



Mechanical Specification



Technical Specifications

Model No.	BLL0100F-24	BLL0100F-30	BLL0100F-36	BLL0100F-48	
Output	DC Voltage Range ^{*2}	14 ~ 24V	22 ~ 30V	26 ~ 36V	33 ~ 48V
	Rated Current	4.2A	3.3A	2.8A	2.1A
	Current Tolerance	+5%, -5%	+5%, -5%	+5%, -5%	+5%, -5%
	Rated Power	100.8W	99W	100.8W	100.8W
	Ripple & Noise (Max.) ^{*3}	150mV	150mV	150mV	200mV
	Efficiency at 230Vac (Typ.)	90%	90%	90%	90%
	Voltage Tolerance ^{*4}	±1%	±1%	±1%	±1%
	Set up time (Max.)	500ms / 230Vac, 1000ms / 115Vac, at full load.			
Input	Voltage Range	90 ~ 300Vac / 127 ~ 424Vdc			
	Frequency Range	47Hz ~ 63Hz			
	AC Current (Max.)	1.4A at 115Vac / 0.7A at 230Vac			
	Power Factor	>0.98 at 115Vac / ≥0.94 at 230Vac at full load. ≥0.9 at 70% load.			
	Inrush Current (Max.)	65A at 230Vac (cold start)			
	Leakage Current	<0.75mA / 240Vac			
Protections	Over Current	95 ~ 108% rated current. Type: Constant current limit and recovers after fault condition disappeared.			
	Short Circuit	Type: Hiccup mode & recovers after fault condition disappeared.			
	Over Voltage	26 ~ 32	40 ~ 50	40 ~ 50	52 ~ 60
		Type: Shutdown mode (re-power on to recover)			
	Over Temperature	Tcase: 95°C ± 10°C Type: Shutdown mode (re-power on to recover)			
Environment	Operation Temp.	-30 ~ 50°C (Refer to output load derating curve)			
	Operation Humidity	20% ~ 90% RH non-condensing.			
	Storage Temp.	-40 ~ +80°C			
	Storage Humidity	10% ~ 90% RH			
	Vibration	10 ~ 500Hz, 2G 10min. / 1 cycle, period for 60min. each along X, Y, Z axes			
Safety & EMC	Safety Standards	UL8750, EN61347-1, EN61347-2-13			
	Withstand Voltage	I / P-O / P: 3.75KVac			
	Isolation Resistance	I / P – O / P: 100M ohms / 500Vdc at 25°C			
	EMI Conduction & Radiation	Compliance to EN55015, FCC part 18			
	Harmonic Current	Compliance to EN61000-3-2 Class C (≥75% Load), EN61000-3-3			
	EMS Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11 Light industry level, criteria A			
Others	MTBF	200K hours min. MIL-HDBK-217F (25°C)			
	Dimension (L*W*H)	222 x 68 x 39mm			
	Packing (L*W*H) / Carton	580 x 340 x 140mm / Carton (10pcs)			
	Weight	1,050g			

* Notes:
1. All specifications not specially mentioned are measured at 230Vac and 25°C ambient temperature.
2. The range is for constant current application.
3. Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.
4. Voltage tolerance: includes line regulation, load regulation and set-up tolerance.