





Features:

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Built-in active PFC function
- UL1310 Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 2 years warranty

SPECIFICATION

of UL1310 class 2.











Δ	BALLART GEPRUFT	1
TTV Resistand ProductTafets	TYPE APPROVED	7

	ATION	DI O 400 40	DI O 400 45	DI 0 400 00	DI 0 400 04	DI 0 400 07	DI O 400 00	DI 0 400 40		
MODEL		PLC-100-12	PLC-100-15	PLC-100-20	PLC-100-24	PLC-100-27	PLC-100-36	PLC-100-48		
	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V		
	CONSTANT CURRENT REGION Note.4	8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V		
	RATED CURRENT Note.6	5A	5A	4.8A	4A	3.55A	2.65A	2A		
	CURRENT RANGE Note.6	0 ~ 5A	0 ~ 5A	0 ~ 4.8A	0 ~ 4A	0 ~ 3.55A	0 ~ 2.65A	0 ~ 2A		
ОИТРИТ	RATED POWER Note.6	60W	75W	96W	96W	95.85W	95.4W	96W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE(Vo ADJ)	10.2 ~ 12V	12.8 ~ 15V	17 ~ 20V	20.4 ~ 24V	23 ~ 27V	30.6 ~ 36V	40.8 ~ 48V		
	CURRENT ADJ. RANGE(Io ADJ)	3.75 ~ 5A	3.75 ~ 5A	3.6 ~ 4.8A	3 ~ 4A	2.6 ~ 3.55A	2~2.65A	1.5 ~ 2A		
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	LINE REGULATION	±1.0%								
	LOAD REGULATION	±2.0%								
	SETUP, RISE TIME	1200ms, 80ms/230VAC 1200ms, 80ms/115VAC at full load								
	HOLD UP TIME (Typ.)	60ms/230VAC 30ms/115VAC at full load								
INPUT		90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	90 ~ 204 VAC 127 ~ 370 VDC 47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC	DE>0 05/115	SVAC at full load	PF≧ 0.9 at 70 ~	100% load				
	EFFICIENCY (Typ.)	85%	86%	89%	88.5%	88%	88%	89%		
	AC CURRENT (Typ.)		0.4A/230VAC		VAC 0.45A/230V			0.55A/230VAC		
	INRUSH CURRENT (Typ.)			150.0.94/115	VAC 0.45A/250V	AC 200~46	V.1.1A/115VAC	0.55A/250VAC		
	LEAKAGE CURRENT		COLD START 40A/230VAC							
	LEARAGE CURRENT	<0.75mA / 240VAC								
PROTECTION	OVER CURRENT (Typ.) Note.4	95 ~ 102%								
					tomatically after fa			T		
	OVER VOLTAGE	13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	30 ~ 36V	39 ~ 48V	52 ~ 64V		
	O VERTO EINOE			ch off o/p voltage, r	e-power on to reco	/er				
	OVER TEMPERATURE	90°C ±10°C (RTH2)								
	OVER TEMP ERATORE	Protection type: Shut down o/p voltage, re-power on to recover								
ENVIRONMENT	WORKING TEMP.	-30 ~ +50 $^{\circ}$ C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	SAFETY STANDARDS Note.7	UL1310 Class 2, EN61347-1, EN61347-2-13 independent, UL60950-1, TUV EN60950-1, UL879 (listed in UL Sign Components Manual (SAM)								
		CAN/CSA C22.2 No. 223-M91(except for 48V) approved								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMI CONDUCTION & RADIATION									
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3, Class C (≥70% load) ; EN61000-3-3								
	EMS IMMUNITY	Compliance to EN61000-3-2,-3, Class C (≥70% load), EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level, (surge 4KV), criteria A								
OTHERS	MTBF				LINO 1547, LIN5502	4, light industry lev	ei, (suige 4KV), C	interia A		
		297.9Khrs min.	MIL-HDBK-217F	(23 ()						
	DIMENSION	200.5*70.5*35mn	` ,							
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation reconfirm special electrical Derating may be needed un	0.52Kg; 25pcs/14Kg/0.65CUFT Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. region is within 70% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please requirements for some specific system design. nder low input voltage. Please check the derating curve for more details. ole output current and power. Over load protection may be activated slightly below this level to comply with the requirement								

7. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.



