





- 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



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





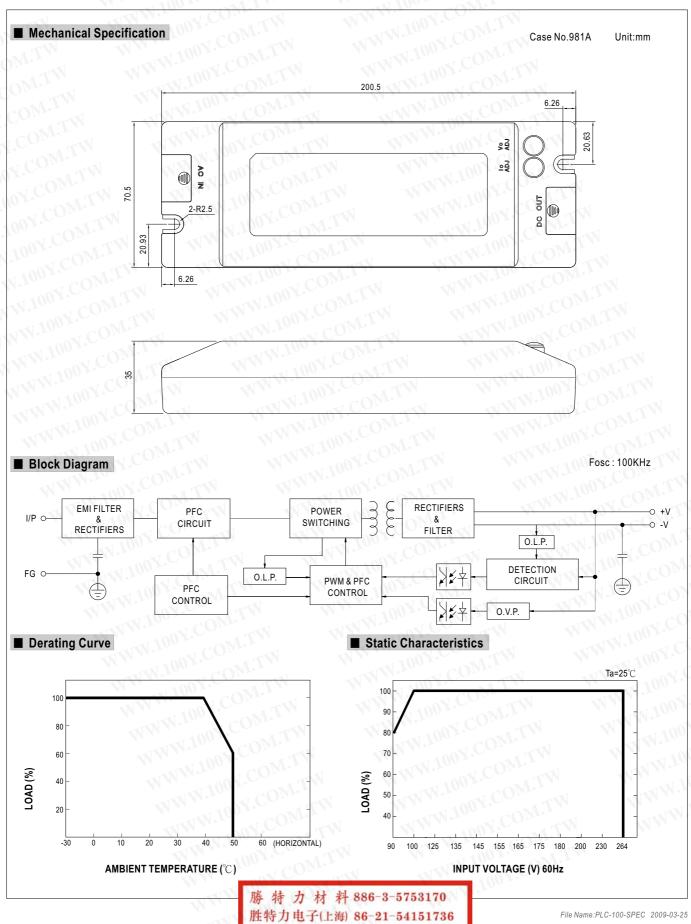






MODEL		PLC-100-12	PLC-100-15	PLC-100-20	PLC-100-24	PLC-100-27	PLC-100-36	PLC-100-48	
- 0V.C	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V	
OUTPUT	CONSTANT CURRENT REGION Note.4	8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V	
	RATED CURRENT Note.6	5A	5A	4.8A	4A	3.55A	2.65A	2A	
	CURRENT RANGE Note.6	0 ~ 5A	0 ~ 5A	0~4.8A	0 ~ 4A	0 ~ 3.55A	0~2.65A	0~2A	
	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	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.95/115VAC at full load PF≥0.9 at 70 ~ 100% load							
	EFFICIENCY (Typ.)	85%	86%	89%	88.5%	88%	88%	89%	
	AC CURRENT (Typ.)	12V:0.8A/115\	/AC 0.4A/230VAC	15V:0.9A/1	5VAC 0.45A/230	VAC 20V ~ 48	8V:1.1A/115VAC	0.55A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC							
	LEAKAGE CURRENT	<0.75mA/240VAC							
PROTECTION	OVER CURRENT (Typ.) Note.4	95 ~ 102%							
		Protection type: Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	13 ~ 16V	16.5 ~ 20V	22 ~ 27V	27 ~ 34V	30 ~ 36V	39 ~ 48V	52 ~ 64V	
		Protection type	e : Shut down and la	atch off o/p voltage	re-power on to rec	over	The state of the s	100 x	
	OVED TEMPEDATURE	90°C ±10°C (RTH2)							
		Protection type: Shut down o/p voltage, re-power on to recover 勝							
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C (Refer to output load derating curve) 20 ~ 95% RH non-condensing				胜特力电子(上海) 86-21-5415173 胜特力电子(深圳) 86-755-832987			
	WORKING HUMIDITY								
	STORAGE TEMP., HUMIDITY	V							
	TEMP. COEFFICIENT	±0.03%/°C (0 ·	- 3	Http://www.100y.com.tw					
	VIBRATION	· ·		riod for 72min ea	ch along X Y 7 ave				
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes UL1310 Class 2, EN61347-1, EN61347-2-13 independent, UL60950-1, TUV EN60950-1, UL879 (listed in UL Sign Components Manual (SAM))							
SAFETY & EMC	SAFETY STANDARDS Note.7	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	Compliance to EN55015, EN55022 (CISPR22) Class B							
	HARMONIC CURRENT	Compliance to EN3003, EN3022 (CISFR22) Class B Compliance to EN61000-3-2,-3, Class C (≥ 70% load) ; EN61000-3-3							
	EMS IMMUNITY							oritoria A	
OTHERS	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level, (surge 4KV), criteria A							
		297.9Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	200.5*70.5*35mm (L*W*H)							
	PACKING								
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up Constant current operation reconfirm special electrical Derating may be needed ur	0.52Kg; 25pcs/14Kg/0.65CUFT ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red 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. Inder low input voltage. Please check the derating curve for more details. ible output current and power. Over load protection may be activated slightly below this level to comply with the requirement							





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