



40W Single Output AC Dimmable LED Power Supply

PCD-40 series

Elworks best.nr.:	4-290-0
Tilbehør til:	Platta serie



■ Features :

- AC phase-cut dimming
- Work with leading edge and trailing edge TRIAC dimmers
- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- IP42 design
- Class II power unit, no FG
- Suitable for indoor LED lighting applications
- 100% full load burn-in test
- Low cost
- High reliability
- 3 years warranty



SPECIFICATION

MODEL		PCD-40-1050B	
OUTPUT	RATED CURRENT	1050mA	
	OPERATING VOLTAGE RANGE	22 ~ 38V	
	CURRENT ACCURACY	±5.0%	
	RATED POWER	39.9W	
	RIPPLE & NOISE (max.) Note.1	2.6Vp-p	
	NO LOAD OUTPUT VOLTAGE (max.)	50V	
	SETUP TIME	500ms / 230VAC at full load	
INPUT	VOLTAGE RANGE	180~295VAC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)	
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≥60%(PCD-40-350B loading≥65%)at 230VAC input and output loading≥75% at 277VAC input	
	EFFICIENCY (Typ.)	86%	
	AC CURRENT (Typ.)	0.35A/230VAC 0.3A/277VAC	
	INRUSH CURRENT(Typ.)	COLD START 11A (twidth=50µs measured at 50% Ipeak) at 230VAC	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	47 units (circuit breaker of type B) / 47 units (circuit breaker of type C) at 230VAC	
	LEAKAGE CURRENT	<0.5mA / 240VAC	
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.	
	OVER TEMPERATURE	Shut down o/p voltage, auto-recovery	
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C (Refer to "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	ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP42 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH	
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C ; EN61000-3-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level(Surge 2KV), criteria B	
OTHERS	MTBF	362.331Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	128*60*31.5mm (L*W*H)	
	PACKING	0.23Kg;30pcs/7.9Kg/0.58CUFT	
NOTE	1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 3. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.		

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