

PCC40W-DC-DALI series

40W constant current LED Power Supply with PFC function and DALI interface



■ Features:

- Constant current design
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- IP20 design
- Isolation class II
- Built-in DALI interface



ELECTRICAL SPECIFICATION

MODEL	PCC40W-DC-DALI-350	PCC40W-DC-DALI-700	PCC40W-DC-DALI-1050	PCC40W-DC-DALI-1400
OUTPUT				
NO OUTPUT DC VOLTAGE (max.)	120V	65V	45V	35V
VOLTAGE RANGE	60 ÷ 110V	30 ÷ 57V	20 ÷ 38V	15 ÷ 28V
RATED CURRENT	350mA	700mA	1050mA	1400mA
RATED POWER	40W			
RIPPLE & NOISE (max.) [2]	1000 mV _{p-p}	700 mV _{p-p}	500 mV _{p-p}	200 mV _{p-p}
CURRENT ACCURACY	± 5%			
LINE REGULATION	± 1%			
LOAD REGULATION	± 2%			
SETUP, RISE, HOLDUP TIME [3]	1000ms, 80ms, 16ms / 230VAC; 1000ms, 80ms, 16ms / 115VAC at full load			
INPUT				
VOLTAGE RANGE	100 ÷ 264VAC			
FREQUENCY RANGE	47 ÷ 63Hz			
EFFICIENCY (typ.)	85%			
AC CURRENT (typ.)	0.4A/115VAC, 0.2A / 230VAC			
LEAKAGE CURRENT (max.)	<1mA / 240VAC			
INRUSH CURRENT (typ.)	30A / 230VAC			
PROTECTIONS				
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.			
OVER VOLTAGE	120 ÷ 140V	65 ÷ 80V	45 ÷ 60V	35 ÷ 50V
	Type: shut off output voltage. Re-power on to recovery.			

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ENVIRONMENT

WORKING TEMPERATURE	-30°C ÷ 60°C (Refer to Derating Curve)
WORKING HUMIDITY	20 ÷ 95% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
TEMPERATURE COEFFICIENT	± 0.03% / °C (0°C ÷ 50°C)
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 60min. each along X, Y, Z axes

SAFETY & EMC REGULATIONS

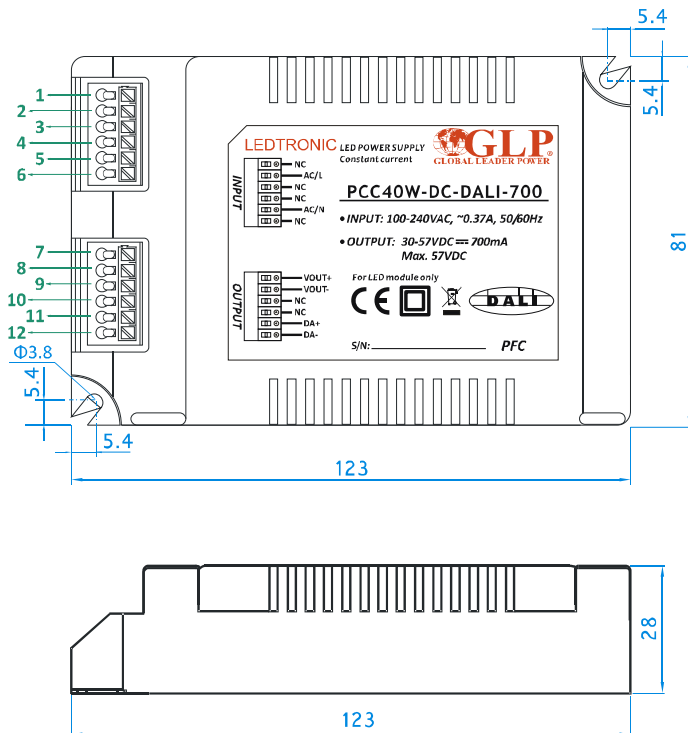
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, EN62384
DALI	Compliance to IEC62386-101,102,207
WITHSTAND VOLTAGE	IN/OUT: 3.0kVAC
ISOLATION RESISTANCE	IN/OUT:100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN 61547; IEC 61000-4-2, -3, -4, -5

OTHERS

DIMENSIONS	123 x 81 x 28mm (L x W x H)
WEIGHT AND PACKING	0.23kg; 50pcs./ctn; ctn weight and dimensions: 12kg, 45.5 x 28 x 18.5cm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Setup and rise time is measured from 0 to 90% rated output voltage.
4. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualify to comply with EMC Directives.

MECHANICAL SPECIFICATION



PIN No. Assignment

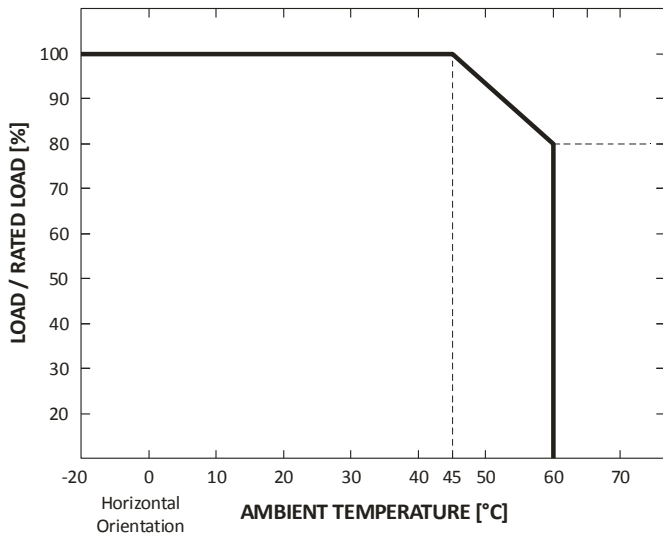
PIN No.	Assignment	PIN No.	Assignment
2	Input: AC/L	7	Output: V+
5	Input: AC/N	8	Output: V-
1,3,4,6	NC	9	NC
		10	NC
		11	DALI +
		12	DALI -

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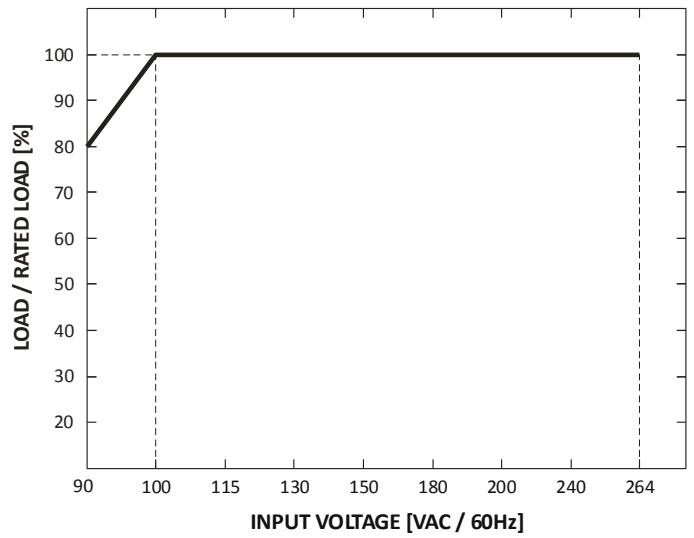
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DERATING CURVE



STATIC CHARACTERISTIC



DALI INTERFACE (DIMMING)

- DALI protocol including 16 groups and 64 addresses

