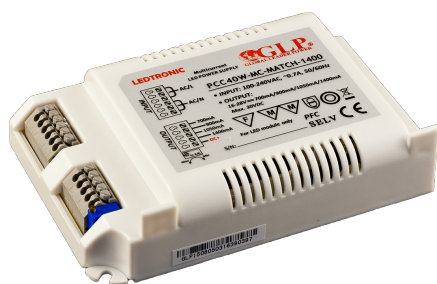


# Series PCC40W-MC-MATCH1400

40W multicurrent selectable output LED Power Supply with PFC function



## ■ Features:

- Constant current design
- 4 kinds of output current selectable
- Output current adjustment ( $\pm 10\%$ ) by built-in potentiometer
- Built-in active PFC function
- Universal AC input / Full range
- Protections: Short circuit / Overcurrent / Overvoltage
- Cooling by free air convection
- Isolation class II



## ELECTRICAL SPECIFICATION

MODEL	PCC40W-MC-MATCH-1400			
<b>OUTPUT</b>				
NO OUTPUT DC VOLTAGE (max.)	30V			
OUTPUT NUMBER	CH1	CH2	CH3	CH4
RATED CURRENT	700mA	900mA	1050mA	1400mA
VOLTAGE RANGE	16 ÷ 28V			
CURRENT ADJUSTMENT [1]	630 ÷ 770mA	810 ÷ 990mA	945 ÷ 1155mA	1260 ÷ 1540mA
CURRENT ACCURACY	$\pm 5\%$			
RATED POWER	40.5W			
LINE REGULATION	$\pm 1\%$			
LOAD REGULATION	$\pm 3\%$			
TOLERANCE [4]	$\pm 5\%$			
RIPPLE & NOISE (max.) [3]	1.5V <sub>p-p</sub>	2V <sub>p-p</sub>	2.5V <sub>p-p</sub>	3V <sub>p-p</sub>
SETUP, RISE, HOLDUP TIME [5]	800ms, 80ms, 20ms / 230VAC; 1300ms, 80ms, 20ms / 115VAC at full load			
<b>INPUT</b>				
VOLTAGE RANGE	90 ÷ 264VAC; 127 ÷ 370VDC			
FREQUENCY RANGE	47 ÷ 63Hz			
EFFICIENCY (typ.)	80%	84%	85%	86%
AC CURRENT (typ.)	0.3A/115VAC, 0.7A / 230VAC			
POWER FACTOR	PF > 0.9 / 230VAC; PF > 0.95 / 115VAC at full load			
<b>PROTECTIONS</b>				
OVER CURRENT	Range: 110 ÷ 130%			
	Type: constant current limiting to 50% rated voltage next hiccup mode. Recovers automatically after fault condition is removed.			
SHORT CIRCUIT	Type: hiccup mode. Recovers automatically after fault condition is removed.			
OVER VOLTAGE	Max. 36V			
	Type: hiccup mode. Recovers automatically after fault condition is removed.			

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## ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ 60°C
<b>WORKING HUMIDITY</b>	20 ÷ 90% RH non-condensing
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
<b>TEMPERATURE COEFFICIENT</b>	± 0.03% / °C (0°C ÷ 50°C)

## SAFETY & EMC REGULATIONS

<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3.0kVAC
<b>ISOLATION RESISTANCE</b>	I-P/O-P: 100MΩ/500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547; IEC 61000-4-2, -3, -4, -5, -6, -8, -11
<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-3; EN61000-3-2 class C

## OTHERS

<b>DIMENSIONS</b>	121 x 81 x 28mm (L x W x H)
<b>WEIGHT AND PACKING</b>	0.23kg; 50pcs./box; box weight and dimensions: 12kg; 45.5 x 28 x 18.5cm

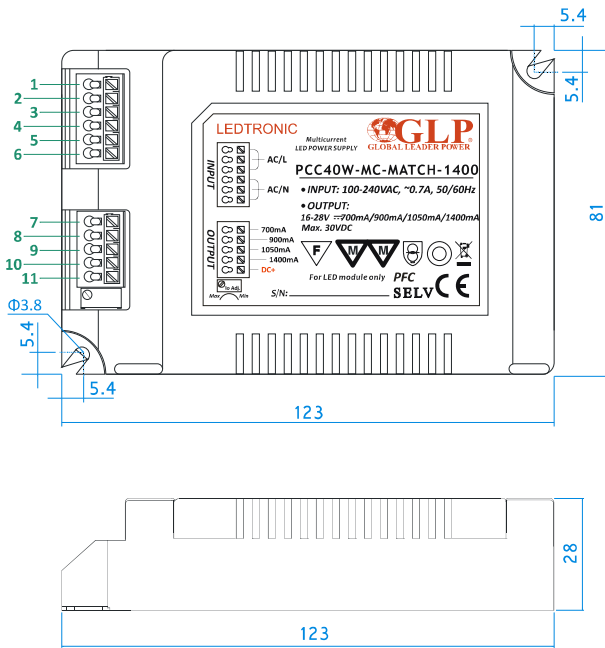
1. By built-in potentiometer.
2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
4. Tolerance includes set up tolerance, line regulation and load regulation.
5. Setup and rise time is measured from 0 to 90% rated output voltage.
6. 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.

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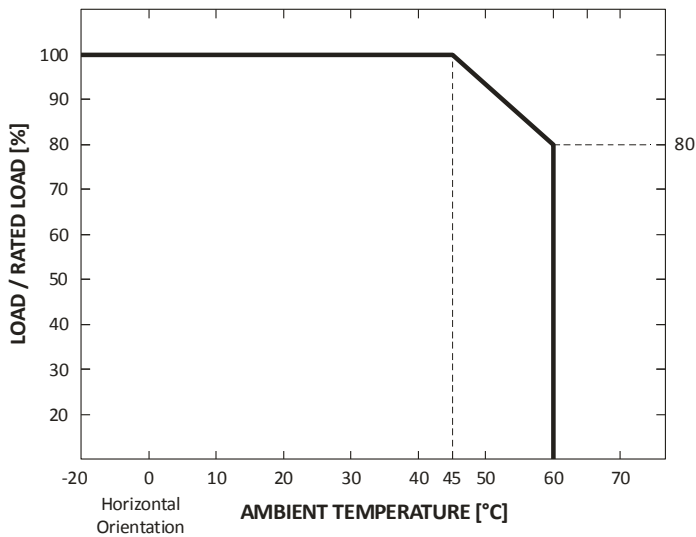
## ELECTRICAL SPECIFICATION



### PIN No. Assignment

PIN No.	Assignment	PIN No.	Assignment
1, 2, 3	Input: AC/L	7	Output CH1: V+ 700mA
4, 5, 6	Input: AC/N	8	Output CH2: V+ 900mA
		9	Output CH3: V+ 1050mA
		10	Output CH4: V+ 1400mA
		11	Output: V- common

### DERATING CURVE



### STATIC CHARACTERISTIC

