

GTICC40-MATCH900

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		GTICC40-MATCH900			
OUTPUT					
NO OUTPUT DC VOLTAGE (max.)	48V				
OUTPUT NUMBER	CH1	CH2	CH3	CH4	
RATED CURRENT	350mA	500mA	700mA	900mA	
VOLTAGE RANGE	22 ÷ 45V				
CURRENT ADJUSTMENT [1]	315 ÷ 385mA	450 ÷ 550mA	630 ÷ 770mA	810 ÷ 990mA	
CURRENT ACCURACY	± 5%				
RATED POWER	40.5W				
LINE REGULATION	± 1%				
LOAD REGULATION	± 3%				
TOLERANCE [4]	± %				
RIPPLE & NOISE (max.) [3]	1V _{p-p}	1V _{p-p}	1.5V _{p-p}	2V _{p-p}	
SETUP, RISE, HOLDUP TIME [5]	800ms, 80ms, 20ms / 230VAC; 1300ms, 80ms, 20ms / 115VAC at full load				
INPUT					
VOLTAGE RANGE	90 ÷ 264VAC; 127 ÷ 370VDC				
FREQUENCY RANGE	47 ÷ 63Hz				
EFFICIENCY (typ.)	80%	82%	8 %	86%	
AC CURRENT (typ.)	0.7A/115VAC, 0.3A / 230VAC				
POWER FACTOR	PF > 0.9 / 230VAC; PF > 0.9 / 115VAC at full load				
PROTECTIONS					
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. 50V				
	Type: hiccup mode. Recovers automatically after fault condition is removed.				

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ENVIRONMENT

WORKING TEMPERATURE	-20°C ÷ 60°C
WORKING HUMIDITY	20 ÷ 90% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 70°C, 10 ÷ 95% RH non-condensing
TEMPERATURE COEFFICIENT	± 0.03% / °C (0°C ÷ 50°C)

SAFETY & EMC REGULATIONS

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

OTHERS

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

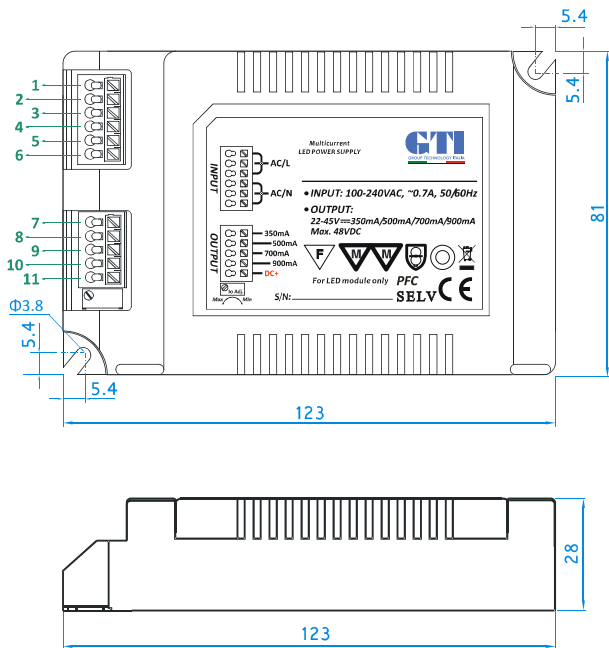
1. By built-in potentiometer.
2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
4. Tolerance includes 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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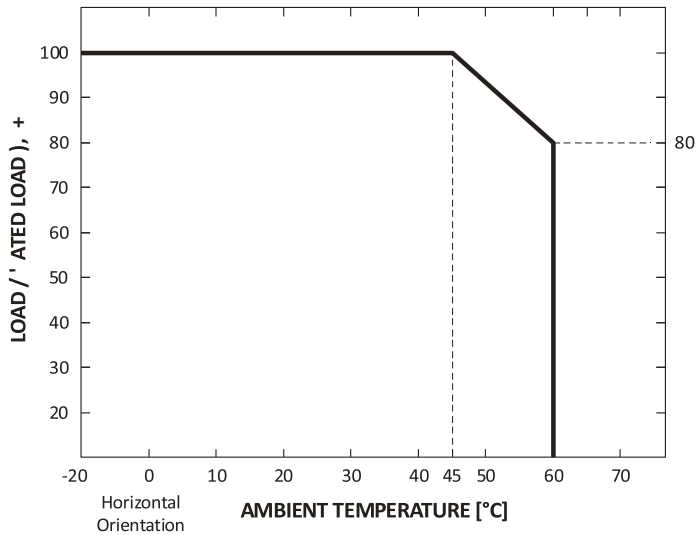


ELECTRICAL SPECIFICATION



PIN No. Assignment			
PIN No.	Assignment	PIN No.	Assignment
1, 2, 3	Input: AC/L	7	Output CH1: V+ 350mA
4, 5, 6	Input: AC/N	#	Output CH2: V+ 500mA
		9	Output CH3: V+ 700mA
		10	Output CH4: V+ 900mA
		11	Output: V- common

DERATING CURVE



STATIC CHARACTERISTIC

