

GTICV100150-24V

150W CONSTANT VOLTAGE LED POWER SUPPLY

FEATURES:

- Constant voltage design
- European AC input range
- Protections: Overload / Over voltage / Short circuit / Over Temperature
- Cooling by free air convection
- Isolation class II
- TUV certificate
- IP67 Protection level [5]



SPECIFICATIONS

tc: 80°C ta: 50°C **SELV** **IP67**

OUTPUT	
Rated voltage	24V
Rated current	6A
Current range	0 ÷ 6A
Rated power	144W
Line regulation	± 2%
Load regulation	± 2%
Tolerance [3]	± 5%
Ripple & noise (max.) [2]	400mV _{p-p}
Setup, rise time [4]	500ms, 50ms / 230VAC at full load
Hold up time	18ms / 230VAC at full load
INPUT	
Voltage range	180 ÷ 277VAC; 254 ÷ 390VDC
Frequency range	47 ÷ 63Hz
Efficiency (typ.)	89%
Ac current (typ.)	1.7A / 230VAC
Inrush current (typ.)	50A / 230VAC; T _{WIDTH} (50% peak) = 1200μs
Max. No. Of psu On circuit breaker	<div>B10</div> <div>B16</div> <div>C10</div> <div>C16</div> <div>D10</div> <div>D16</div>
	<div>2</div> <div>4</div> <div>2</div> <div>4</div> <div>5</div> <div>6</div>
Leakage current (max.)	0.25mA / 240VAC

PROTECTION

Overload	Range: 110 ÷ 180% rated current Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over Voltage	27 ÷ 40 Type: hiccup mode, auto-recovery.
Over Temperature	Range: 110°C ± 10° Type: shut-off, after temperature goes down re-power on to recovery.

WORKING ENVIRONMENT

Working Temperature	-20°C ÷ 70°C (Refer to Derating Curve)
Working Humidity	20 ÷ 9, % 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, 5G, 12min / cycle, period for 72min. each along X, Y, Z axes

SAFETY & EMC REGULATIONS

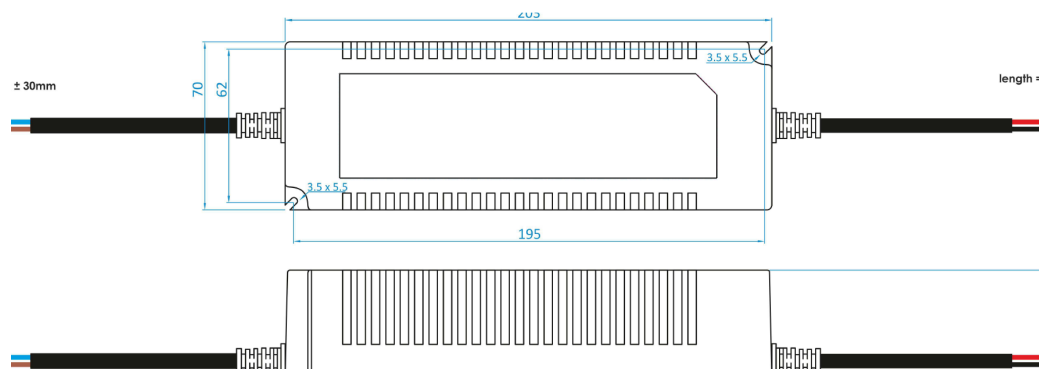
Safety Standards	Compliance to EN61347-1, EN61347-2-13, IP67
Withstand Voltage	I-P/O-P: 3kVAC
Isolation Resistance	I-P/O-P: 100MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

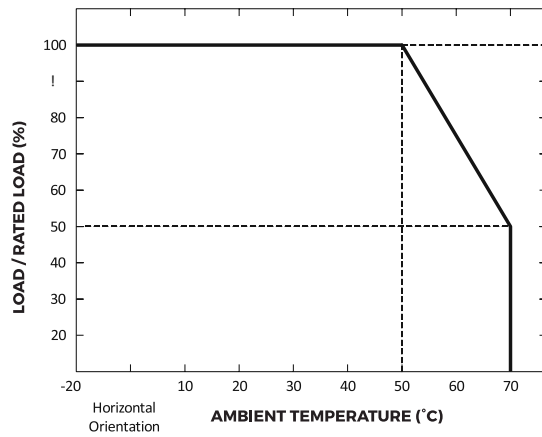
Lifetime	50 000 hours at 230VAC input, ambient temperature 25°C, full load
Dimensions	203 x 70 x 45mm (L x W x H)
Weight and Packing	1.15kg; 15pcs./ctn; ctn weight and dimensions: 18kg; 45.5 x 29.5 x 19cm

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. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
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-qualified to comply with EMC Directives.

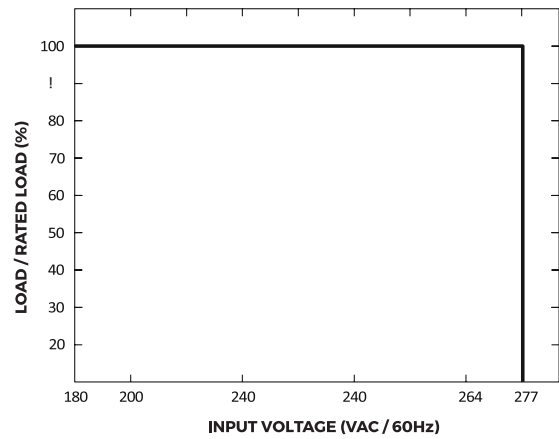
MECHANICAL SPECIFICATIONS



DERATING CURVE



STATIC CHARACTERISTICS



LIFETIME vs. AMBIENT TEMPERATURE CURVE

