

## GTICV100200-24V

### 200W CONSTANT VOLTAGE LED POWER SUPPLY

#### FEATURES:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
- Cooling by free air convection
- Isolation class II
- Fully encapsulated with IP67 level [5]



#### SPECIFICATIONS

tc: 80°C    ta: 50°C    **SELV**                   **IP67**

##### OUTPUT

Rated Voltage	24V
Rated Current	8.3A
Current Range	0 ÷ 8.3A
Rated Power	199.2W
Line Regulation	± 1%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (Max.) [2]	500mV <sub>p-p</sub>
Setup, Rise Time [4]	1000ms, 50ms / 230VAC at full load
Hold Up Time (Typ.)	40ms / 230VAC at full load

##### INPUT

Voltage range	200 ÷ 264VAC					
Frequency range	47 ÷ 63Hz					
Efficiency (typ.)	90%					
Ac current (typ.)	2.6A / 230VAC					
Inrush current (typ.)	30A / 230VAC; TWIDTH = 1800μs					
Max. No. Of psu On circuit breaker	B10	B16	C10	C16	D10	D16
	1	1	1	2	1	2
Leakage current (max.)	0.25mA / 240VAC					

## PROTECTION

Over Current	Range: 110% ÷ 150% rated current
Short Circuit	Type: hiccup mode, auto-recovery.
Over Voltage	Range: 25-36V   Type: hiccup mode, auto-recovery.
Over Temperature	140°C±10°C(detect on main control IC) Type: shut-off, after temperature goes down re-power on to recovery.

## WORKING ENVIRONMENT

Working Temperature	-30°C ÷ 70°C (refer to Derating Curve), ta: 50°C; tc: 80°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature And Humidity	-30°C ÷ 80°C, 10 ÷ 95% RH non-condensing

## SAFETY & EMC REGULATIONS

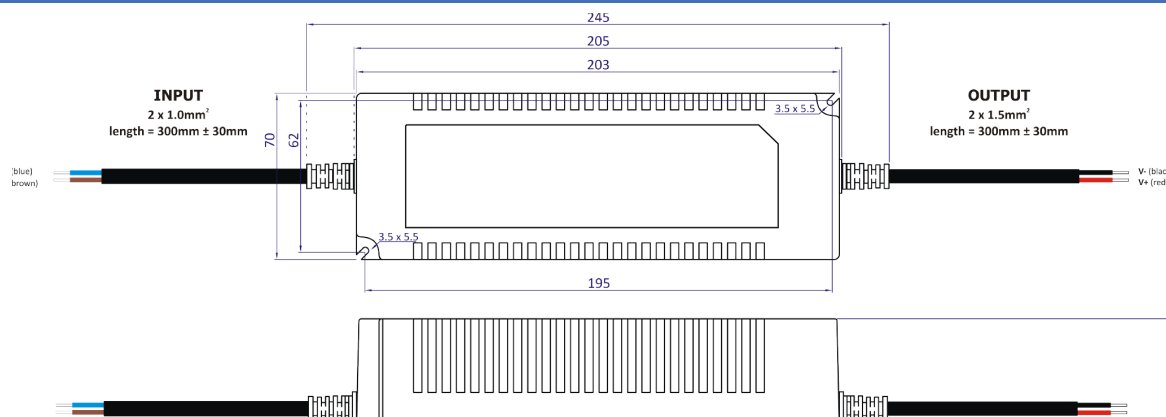
Safety Standards	Compliance to TUV EN 61347-1, TUV EN 61347-2-13, IP67
Withstand Voltage	IN/OUT: 3kVAC
Isolation Resistance	IN/OUT: 100MΩ/500VDC/25°C/70%
Emc Emission	Compliance to EN55015
Emc Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

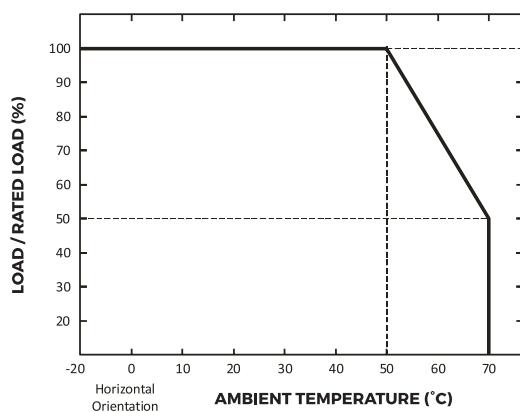
Lifetime	50.000 hours at 230VAC input, ambient temperature 25°C, full load
Dimensions	203 x 70 x 45mm (L x W x H)
Weight And Packing	1.15kg; 15pcs/ctn; ctn weight and dimensions: 18kg; 45 x 29.5 x 19cm

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 component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

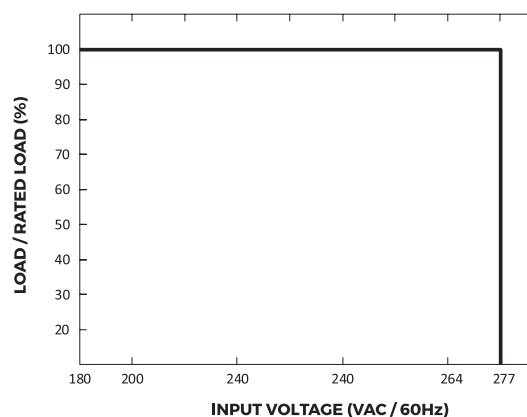
## MECHANICAL SPECIFICATIONS



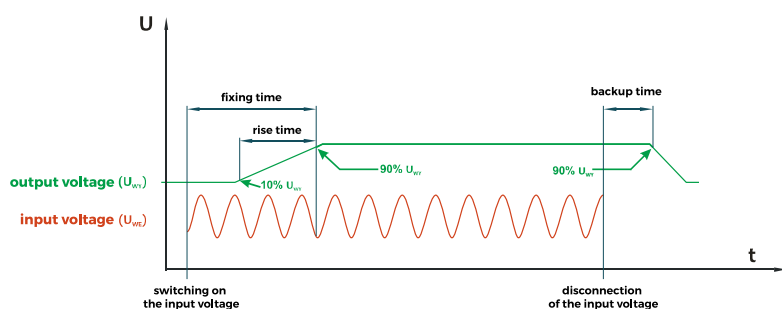
## DERATING CURVE



## STATIC CHARACTERISTICS



## SETUP, RISE AND HOLDUP TIME



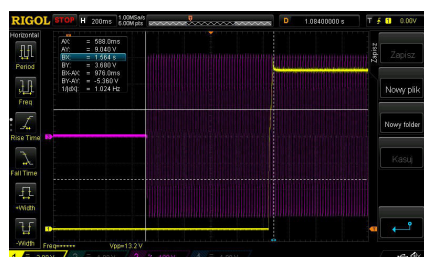
**Setup time** – time required for the output voltage to reach 90%

of its set value measured after AC input voltage is powered on.

**Rise time** – time required for the output voltage to change from 10% to 90% of its set value.

**Holdup time** – time required for the output voltage to reach 90% of its set value measured after AC input voltage is powered off.

## SETUP TIME FOR GTICV200 SERIES



## RISE TIME FOR GTICV200 SERIES



## HOLDUP TIME FOR GTICV200 SERIES

