GIV-200 series

200W LED Switching Power Supply (CV) with PFC function



INVENTRONICS



■ Feature:

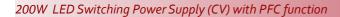
- Constant voltage design
- Built-in active PFC function
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- High efficiency
- IP67 design for indoor and outdoor appliances



ELECTRICAL SPECIFICATION

MODEL	GIV-200-12	GIV-200-24
FACTORY PART NO.	EUV-200S012SV	EUV-200S024SV
OUTPUT		
Rated Voltage	12V	24V
Rated Current	15A	8.33A
Rated Power	180W	200W
Line Regulation	± 1%	
Load Regulation	± 2%	
Tolerance [1]	± 5%	
Ripple & Noise (max.)	240mV _{P-P}	480mV _{P-P}
Setup time	<i>Typ.:</i> 0.5s; <i>Max.:</i> 1s /220VAC	
Overshoot / Undershoot (max.)	10% when power on or off	
Load Dynamic Response	5% for R/S: 1A/μs; load: 25% ÷ 75%	
INPUT		
Voltage Range	90 ÷ 305VAC	
Frequency Range	47 ÷ 63Hz	
Efficiency (typ.)	91%	92%
AC current (typ.)	2.3A / 110VAC, 1.1A / 220VAC	
Power Factor	<i>Min.:</i> PF > 0.9; <i>Typ.:</i> PF > 0.98 / 100VAC ÷ 277VAC; Load: 75% ÷ 100%	
Inrush current	65A, 1.5A ² s / 220VAC; cold start; 25°C, t = 3ms (10%lpk-10%lpk)	
Leakage current (max.)	0.75mA / 240VAC	
No load power consumption (max.)	3W	
PROTECTIONS		
Over Current	Range: 120 ÷ 200% rated current	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over Voltage	14V ÷ 18V	29V ÷ 36V
	Type: Limits output voltage at no load and in case the normal voltage limit fails. Re-power on to recovery.	
Over Temperature	Range: 120°C ± 10°C	
	Typ: shut off output voltage. Recovers automatically after temperature goes down.	

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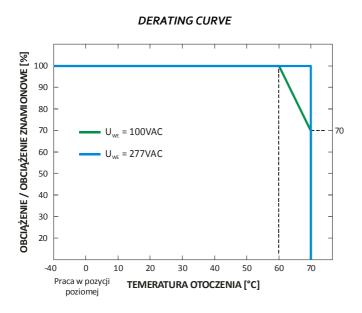


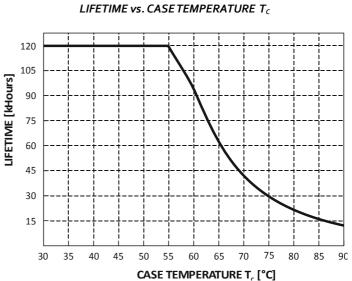


WORKING ENVIRONMENT		
Working Temperature	For safety: $T_{CASE} = -35^{\circ}\text{C} \div +90^{\circ}\text{C}$; For warranty: $T_{CASE} = -35^{\circ}\text{C} \div +70^{\circ}\text{C}$	
Working Humidity	20 ÷ 90% RH non-condensing	
Storage Temperature and Humidity	-40°C ÷ 85°C, 10 ÷ 95% RH non-condensing	
Temperature Coefficient	$\pm 0.05\% / ^{\circ}C (T_{CASE} = 0^{\circ}C \div 90^{\circ}C)$	
SAFETY AND EMC REGULATIONS		
Safety Standards	Compliance to EN61347-1, EN61347-2-13	
Withstand Voltage	IN/OUT: 3.75kVAC; IN/GND(CASE): 1.5kVAC; OUT/GND(CASE): 0.5kVAC	
Isolation Resistance	IN/OUT:100MΩ/500VDC/25°C/70%	
EMC Emission	Compliance to EN 55015	
EMC Immunity	Compliance to EN 61547; IEC 61000-4-2, -3, -4, -5, -6, -8, -11	
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2	
OTHERS		
MTBF	276 000 hours according to MIL-HDBK-217F (U_{IN} = 110VAC; load: 80%, T_A = 25°C)	
Lifetime	95 200 hours (U _{IN} = 220VAC; load: 80%, T _{CASE} = 60°C)	
Dimensions	199 x 67.5 x 39.5mm (L x W x H)	
Weight and Packing	1 kg; 14pcs/box; box weight and dimensions: 15.7kg; 31 x 40 x 20cm	
4. Telephone in order action telephone line annulation and land annulation		

^{1.} Tolerance incudes set up tolerance, line regulation and load regulation.

^{2.} 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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MECHANICAL SPECIFICATION

GIV-200-12



Note! The 2 DC output cables are connected in parallel internally because one 1.0mm² wire can only carry 10A. Please connect the 3 brown wires together and 2 blue wires together in application or ensure each cable carries same current.

GIV-200-24



