VT-G08IPS

240W/48V Industrial DIN Rail Power Supply

Overview

The VT-G08IPS is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -40℃ to 80℃ under air convection. It is equipped with constant current mode for over load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus make VT-G08IPS a very competitive power supply solution for industrial applications.

Feature

- Power Input: AC 90~264V
- Support production for short circuit/ over current/over voltage
- Wide operation temperature range: -40℃~80℃
- 100% full load aging test
- High efficiency, long life time and high reliability
- Meet EMC Standard

VidoNet

240W/48V Industrial DIN Rail Power Supply

TheVT-G08IPS is one economical slim 240W industrial DIN Rail power supply series, adapting to be installed on TS-35/7.5 or TS-35/15 mounting rails. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

Application

- Industrial Control System
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

Specifications

Model No.		VT-G08IPS
Output	Group of Output	1
	DC Voltage	48V DC
	Output Voltage	48.00-48.2V （VIN: 220VAC / LOAD: 0A）
	Output Rated Current	5A
	Peak Output Current	0-5A
	Output Rated Power	240W
	Total Peak Output Power	Up to 360W (Sustainable time 10S/220VAC)
	Peak Output Current	7.5A(Sustainable time 10S/220VAC)
	Ripple noise	Peak - Peak ≤100mV (Test Method: The terminal shall be in parallel with capacitance of 0.1uF and 47uF, testing at 20MHz)
	Output Regulation Range	DC48～57V
	Stabilized Voltage Precision	±1% (@ 90-264Vac input, 100% load)

Output	Stabilized Voltage Precision	±1% (@ 90-264Vac input, 100% load)	
	Line Regulation	±0.5% (@ 90-264Vac input, 100% load)	
	Load Regulation	±1% (@ 90-264Vac input, 100% load)	
	Temperature Coefficient	± 0.03%℃	
	Output Start Time	< 2S @ nominal input (100% load)	
	Output Hold Time:	>20ms @ 115VAC, >50 ms @ 230Vac (100% load)	
	Voltage Overshoot:	≤5%	
Input	Input Voltage Range	90~264VAC	
	Input Rated Voltage Range	100~240VAC	
	Frequency Range	47Hz~63Hz	
	Rated Frequency	50/60Hz	
	Starting Voltage	90V AC	
	Efficiency	90.0% @ 115Vac, > 91.0% @ 230Vac	
	Protection	< 4.4A @115Vac < 2.2A @ 230Vac	
	Inrush Starting Current	< 35A @ 115Vac & 230Vac	
	Power Factor	>0.99 @ 115Vac >0.93 @ 230Vac	
Protection	Output	Over power	288~360W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
		Over voltager	57~70V V Swing machine (Short circuit the Pin1-2 of U8, swing machine. Output recovery to normal after removing the short circuit) Note: Do not use external voltage.
		Over current	6~7.5A Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.)
		Short circuit	It achieves the long-term short circuit by connecting a sufficient cross-sectional area copper cable (Length at 15cm±5cm) with power output port. Self-recovery to normal after removing the short circuit.

EMS	Electrostatic Emission	EN61000-4-2 Level4 criterion B
	EFT	EN61000-4-4 Level4 criterion B
	Surge	EN61000-4-5 Level4 criterion B
	Dip and Interruption	EN61000-4-11
Operation Environment	Operation Temperature	-30℃; ~80℃;
	Storage Temperature	-40℃; ~85℃;
	Humidity	10%~95%RH non-condensing
	Libration	Frequency range: 10 ~ 500Hz, Acceleration: 2G, Each sweep cycle 10min. Six sweeps along the X, Y, and Z axis
	Surge	Acceleration: 20G, Duration time: 11mS, Three shocks along X, Y and Z axis
	Altitude	2000m
Dimension (L*W*H)		135*121*40mm

Dimension