

### VT-G04IPS

120W/48V Industrial DIN Rail Power Supply



#### Overview

The VT-G04IPS 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  $-40^{\circ}\text{C}$  to  $80^{\circ}\text{C}$  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-G04IPS 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:  $-40^{\circ}\text{C}$ ~ $80^{\circ}\text{C}$
- 100% full load aging test
- High efficiency, long life time and high reliability
- Meet EMC Standard

The VT-G04IPS is one economical slim 120W 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-G04IPS
Output	Group of Output	1
	DC Voltage	48V DC
	Output Voltage	48.00-48.2V (VIN: 220VAC / LOAD: 0A)
	Output Rated Current	2.5A
	Peak Output Current	0-2.5A
	Output Rated Power	120W
	Total Peak Output Power	Up to 180W (Sustainable time 10S/220VAC)
	Peak Output Current	3.75A( Sustainable time 10S/220VAC)
	Ripple noise	Peak - Peak $\leq 100\text{mV}$ (Test Method: The terminal shall be in parallel with capacitance of 0.1 $\mu\text{F}$ and 47 $\mu\text{F}$ , testing at 20MHz)
	Output Regulation Range	DC48~57V
Stabilized Voltage Precision	$\pm 1\%$ (@ 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%°C	
	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	Protection	< 2.20A @ 115Vac < 1.10A @ 230Vac	
	Inrush Starting Current	< 35A @ 115Vac & 230Vac	
	Power Factor	>0.99 @ 115Vac >0.93 @ 230Vac	
Protection	Output	Over power	144~ 180W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
		Over voltagere	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	3~3.75A 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°C; ~80°C;
	Storage Temperature	-40°C; ~85°C;
	Humidity	10%~95%RH non-condensing
	Vibration	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

