



45W SINGLE OUTPUT INDUSTRIAL DIN RAIL POWER SUPPLY VDI IAL4524



MAIN FEATURES

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- LED indicator for power on
- 100% full load burn-in test
- Fix switching frequency at 100kHz

PRODUCT SPECIFICATIONS

OUTPUT

DC voltage	24V
Rated current	2A
Current range	0 ~ 2A
Rated power	48W
Ripple & noise (max)	480mVp-p
Voltage adj. range	21.6 ~ 26.4V
Voltage tolerance	± 1.0%
Line regulation	± 1.0%
Load regulation	± 1.0%
Setupe, rise time	800ms, 60ms/230VAC at full load
Hold up time (Typ.)	60ms/230VAC at full load

INPUT

Voltage range	85 ~ 264VAC 120 ~ 370VDC
Frequency range	47 ~ 63Hz
Efficiency (Typ.)	80%
AC current (Typ.)	1.5A/115VAC 0.75A/230VAC
Inrush current (Typ.)	COLD START 28A/115VAC 56A/230VAC
Leakage current	<1mA / 240VAC

PROTECTION

Overload	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
Over voltage	27.6 ~ 32.4V Protection type : Shut off o/p voltage, clamping by zener diode
Over temperature	Tj 135°C typically (U1) detect on heat sink of power transistor Protection type : Shut down o/p voltage, re-power on to recover

ENVIRONMENT

Working temp.	-10 ~ +50°C (Refer to "Derating Curve")
Working humidity	20 ~ 90% RH non-condensing
Storage temp	-20 ~ +85°C
Humidity	10 ~ 95% RH
Temp. coefficient	± 0.03%/°C (0 ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6

SAFETY & EMC

Safety standards	UL508, TUV EN60950-1 approved
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100MΩ / 500VDC / 25°C / 70% RH
EMC emission	Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2,-3
EMS immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A

OTHERS

MTBF	234.6K hrs min MIL-HDBK-217F (25°C)
Dimensions	93*78*67mm (L*W*H)
Packing	0.31kg; 48pcs / 17.5kg / 1.3CUFT

WARRANTY

24 months

Note :

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

YOUR POINT OF CONTACT

