



*Sample Picture Only

Features

- 2:1 Wide input range
- Protections: Short circuit/ Overload/ Over voltage/ input reverse polarity
- 4000VAC I/O isolation
- Built-in EMI filter, low ripple noise
- High reliability
- Low cost
- 1 year warranty

SPECIFICATION

MODEL		DCDC-1248
OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	2.1A
	CURRENT RANGE	0 ~ 2.1A
	RATED POWER	100W
	RIPPLE & NOISE (max.) Note.2	50mVp-p
	VOLTAGE ADJ. RANGE	48 ~ 56VDC
	VOLTAGE TOLERANCE Note.3	±1.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	500ms, 60ms @ 12VDC
	HOLD UP TIME (Typ.)	3ms @ full load
INPUT	VOLTAGE RANGE	9.5 ~ 18VDC
	EFFICIENCY (Typ.)	88%
	DC CURRENT (Typ.)	11.2A/12VDC
	INRUSH CURRENT (Typ.)	5A/12Vdc
	LEAKAGE CURRENT	N/A
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : recovers automatically after fault condition is removed
	OVER VOLTAGE	57.6 ~ 67.2V Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed
ENVIRONMENT	WORKING TEMP.	-40 ~ +55°C
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC (Note 4)	SAFETY STANDARDS	
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2.5KVAC O/P-FG:2.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,6,8, light industry level, criteria A
OTHERS	MTBF	214.6K hrs min.
	DIMENSION	199*98*38mm (L*W*H)
	PACKING	0.65Kg
NOTE	1. All parameter NOT specially mentioned are measured at 12VDC 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 0.1 uf & 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. All the EMC test have been executed by mounting the unit on a 360mm x 360mm metal plate with 1mm of thickness	