

*Sample Picture Only

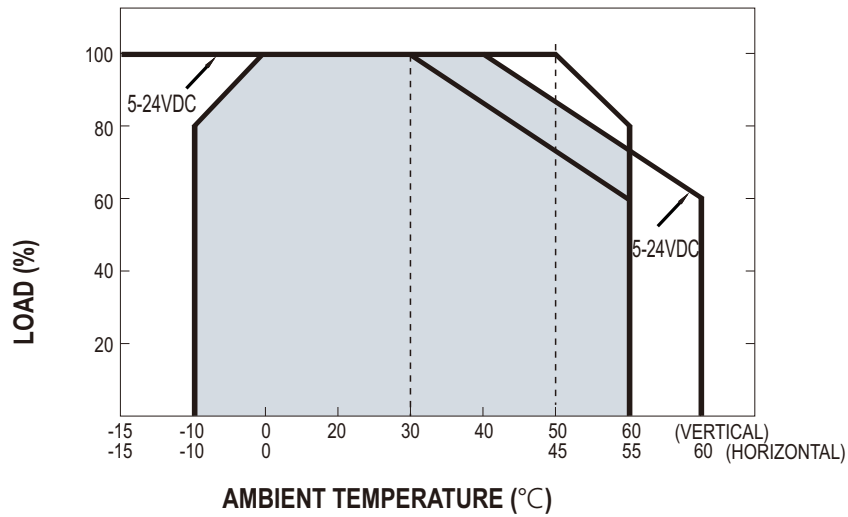
Features

- 2:1 Wide input range
- Protections: Short circuit/ Overload/ Over voltage
- 1500VAC I/O isolation
- Built-in EMI filter, low ripple noise
- High reliability
- Low cost
- 1 year warranty

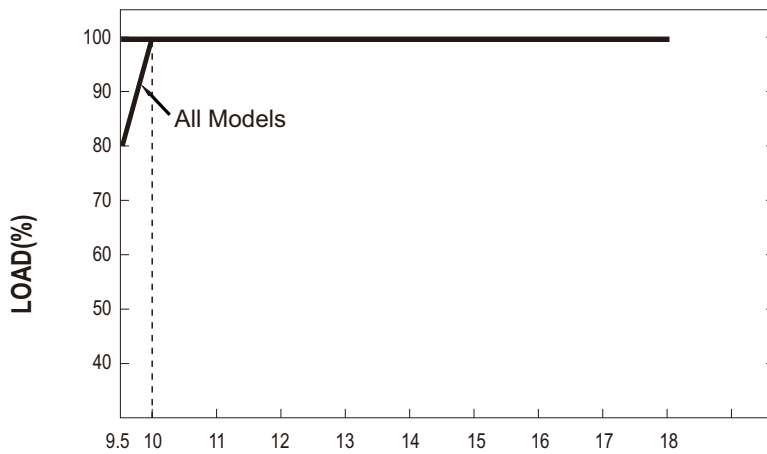
SPECIFICATION

MODEL		DCDC-1205		DCDC-1212		DCDC -1224	
OUTPUT	DC VOLTAGE	5V		12V		24V	
	RATED CURRENT	18A		8.5A		4.2A	
	CURRENT RANGE	0 ~ 18A		0 ~ 8.5A		0 ~ 4.2A	
	RATED POWER	90W		102W		100.8W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p		120mVp-p		150mVp-p	
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC		11 ~ 16VDC		23 ~ 30VDC	
	VOLTAGE TOLERANCE Note.3	±2.0%		±1.0%		±1.0%	
	LINE REGULATION	±0.5%		±0.3%		±0.2%	
	LOAD REGULATION	±0.5%		±0.3%		±0.2%	
	SETUP, RISE TIME	2s, at full load					
	HOLD UP TIME (Typ.)	N/A					
INPUT	VOLTAGE RANGE	9.5 ~ 18VDC					
	EFFICIENCY (Typ.)	78%		82%		84%	
	DC CURRENT (Typ.)	9.7A/12V		10.4A/12V		10A/12V	
	INRUSH CURRENT (Typ.)	N/A					
	LEAKAGE CURRENT	<0.75mA/120VAC					
PROTECTION	OVERLOAD	105 ~ 135% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75V/10% load		16.8 ~ 20V/10% load		31.5 ~ 37.5V/5% load	
	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
ENVIRONMENT	WORKING TEMP.	-15 ~ +60°C (Refer to "Derating Curve")					
	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, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 4)	SAFETY STANDARDS						
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
	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	399.9K 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 25C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by suing a 12" twisted paire-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 3600m x 360mm metal plate with 1mm of thickness						

Derating Curve



Output Derating VS Input Voltage



A-type : 65KHz