

Dimension -

W \* L \* H 127 \* 230 \* 40.5(1U) mm























### ■ Features

- DC input
- Protections: Short circuit / Overload / Over voltage / Over temperature
- LED indicator for power on
- Built-in remote ON-OFF control / remote sense / DC OK signal
- High efficiency up to 90.5%
- Forced air cooling by built-in DC fan
- Built-in active PFC function

# Applications

- Industrial automation machinery
- Industrial control system machinery
- Factory control or automation apparatus
- Test and measurement instrument
- RF application

### Description

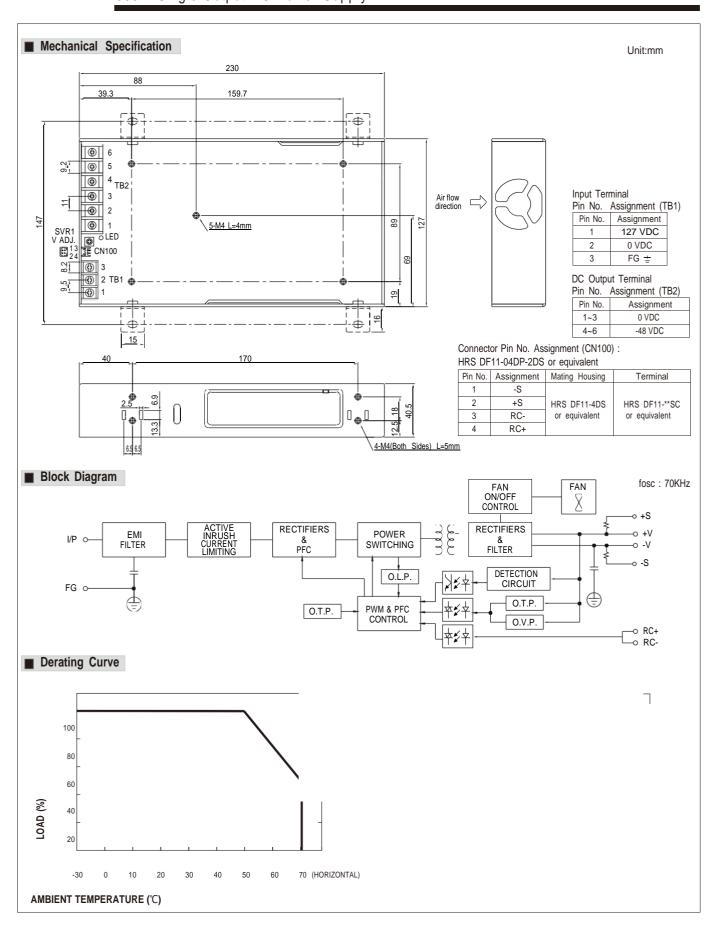
DC127-DC48 is a 500W single output enclosed type DC/DC power supply. This series operates for 115~350VDC input voltage and offers -48 VDC output. DC127-DC48 is cooled by the built-in fan with fan speed control, working for the temperature up to 70°C.



# **SPECIFICATION**

MODEL		DC127-DC48				
	VOLTAGE RANGE	115 ~ 350VDC				
	EFFICIENCY (Typ.)	90.5%				
INPUT						
	DC VOLTAGE	-48V				
	RATED CURRENT	10.5A				
	CURRENT RANGE	0 ~ 10.5A				
	RATED POWER	504W				
	RIPPLE & NOISE (max.)	150mVp-p				
OUTPUT	VOLTAGE ADJ. RANGE	41 ~ 56V				
	VOLTAGE TOLERANCE	±1.0%				
	LINE REGULATION	±0.2%				
	LOAD REGULATION	±0.5%				
	OVERLOAR	105 ~ 130% rated output power				
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	58.4 ~ 68V				
PROTECTION	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down				
	REMOTE CONTROL	POWER ON: open or 0~0.8VDC between RC+(Pin 4)&RC-(Pin3) on CN100 POWER				
		OFF: 4~10VDC between RC+(Pin 4)&RC-(Pin3) on CN100				
FUNCTION	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.3V				
	FAN CONTROL (Typ.)	RTH2≥50°C±10°C Fan on; RTH2≤40°C±10°C Fan off (Fan ON/OFF control)				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004 , CCC GB4943.1 , BSMI CNS14336-1approved				
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
EMC	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020,GB/T 9254, CNS13438 Class B				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2, criteria A, EAC TP TC 020				
	MTBF	187.7K hrs min. MIL-HDBK-217F (25°C )				
OTHERS	DIMENSION	230*127*40.5mm (L*W*H)				
NOTE						







500W Single Output DC Power Supply

# **■** Function Description of CN100

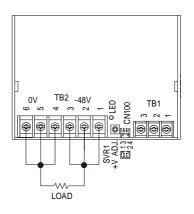
Pin No.	Function	Description
1	-S	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.
2		Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.
3	RC-	Return for RC+ signal input.
4	RC+	Turns the output on and off by electrical or dry contact between pin 4 (RC+) and pin 3 (RC-). 0~0.8VDC or open: Power ON, 4~10VDC: Power OFF.

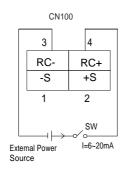
### ■ Function Manual

### 1. Remote Control

The PSU can be turned ON/OFF by using the "Remote Control" function.

Between RC-(pin3) and RC+(pin4) on CN100	PSU Status
SW OFF (0 ~ 0.8VDC) or open	ON
SW ON (4 ~ 10V)	OFF





### 2. Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.3V

