PV3-48-*

SPECIFICATIONS

HZC151-01-01

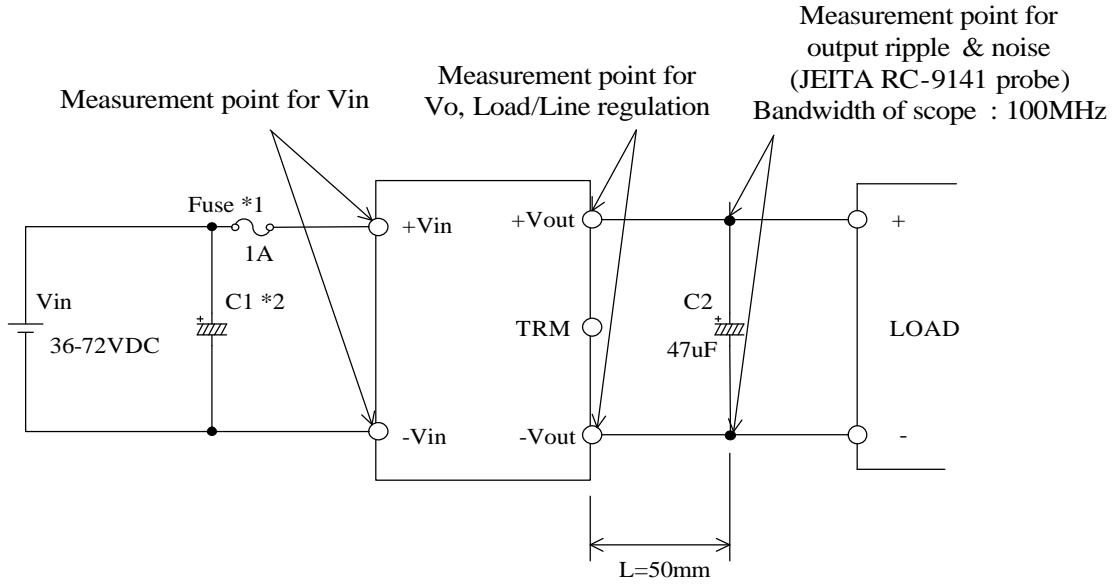| MODEL ITEMS			PV3-48-3.3	PV3-48-5
1	Nominal Output Voltage	V	3.3	5
2	Maximum Output Current	A	0.8	0.6
3	Maximum Output Power	W	2.64	3.0
4	Efficiency (Typ) (*1)	%	73	78
5	Input Voltage Range	VDC	48 (36 - 72)	
6	Input Current (Typ) (*1)	A	0.075	0.08
7	Output Voltage Accuracy (*1)	%	±3	
8	Output Voltage Range (*2)	V	3.3 - 3.67	5 - 6
9	Maximum Ripple & Noise (*3)	mV	100	120
10	Maximum Line Regulation (*4)	mV	20	
11	Maximum Load Regulation (*5)	mV	40	
12	Over Current Protection (*6)	-	Yes	
13	Over Voltage Protection	-	No	
14	Remote ON/OFF Control	-	No	
15	Parallel Operation	-	No	
16	Series Operation	-	No	
17	Operating Temperature (*7)	°C	-20 - +70	
18	Operating Humidity	%RH	30 - 90 (No dewdrop)	
19	Storage Temperature	°C	-30 - +85	
20	Storage Humidity	%RH	10 - 95 (No dewdrop)	
21	Cooling	-	Convection Cooled	
22	Temperature Coefficient	%/°C	0.02	
23	Withstand Voltage	-	Input - Output ... 500VAC 1min. (5mA)	
24	Isolation Resistance	-	More than 100Mohm at 25°C and 70% RH Input - Output ... 500VDC	
25	Vibration	-	At no operation, 10 - 55 - 10Hz (sweep for 1min.) amplitude 1.5mm constant (maximum 88.3m/s^2 X, Y, Z 2h each)	
26	Shock	m/s^2	196.1	
27	Weight (Typ)	g	4	
28	Size (W x H x D)	mm	33 x 18 x 8.5 (Refer to Outline Drawing)	

= NOTES =

*1 : At 48VDC input and maximum output power.

*2 : Refer to instruction manual.

*3 : Measured with JEITA RC-9141 probe,
Bandwidth of scope : 100MHz.

*4 : From 36 to 72VDC input and constant load.

*5 : From No load to Full load and constant input voltage.

*6 : Output current limiting with automatic recovery.
Avoid the operation longer than 30sec. with over load.

*7 : Rating - Refer to derating curve on the right.
- Load (%) is percentage of
maximum output power.

*8 : External fuse use is recommended for the operation.

Output Derating Curve

PV3-48-*
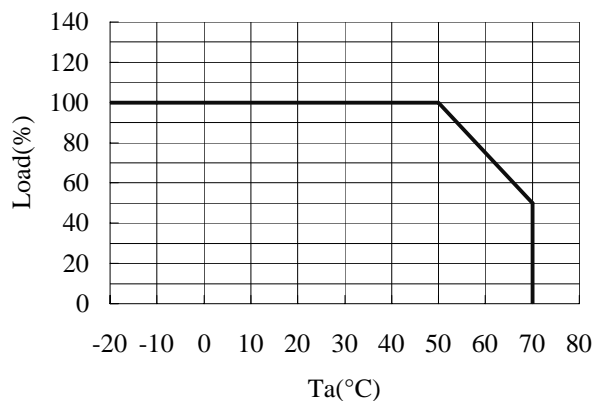
BASICAL CONNECTION

HZC151-01-02

Measurement point for
output ripple & noise
(JEITA RC-9141 probe)
Bandwidth of scope : 100MHz

Measurement point for
Vo, Load/Line regulation

Measurement point for Vin

Fuse *1

1A

+Vin   +Vout   +

Vin   C1 *2   TRM   C2   LOAD

36-72VDC   47uF

-Vin   -Vout   -

L=50mm

Value of I^2t (typ)   0.002 (A^2s)

NOTE

*1 : External fuse use is recommended for the operation.

*2 : When the input line impedance is high, insert input capacitor C1 more than 4.7uF.
    (Refer to instruction manual.)

*3 : Refer to instruction manual for furthuer details.