PV3-5-*

SPECIFICATIONS

HZC148-01-01

|	MODEL / ITEMS			PV3-5-3.3	PV3-5-5	PV3-5-12
1	Nominal Output Voltage		V	3.3	5	12
2	Maximum Output Current		A	0.8	0.6	0.25
3	Maximum Output Power		W	2.64	3.0	3.0
4	Efficiency (Typ)	(*1)	%	71	77	82
5	Input Voltage Range		VDC	5 (4.5 - 9.0)		
6	Input Current (Typ)	(*1)	A	0.75	0.78	0.73
7	Output Voltage Accuracy	(*1)	%	±3		
8	Output Voltage Range	(*2)	V	3.3 - 3.67	5 - 6	12 - 15
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 5VDC input and maximum output power.
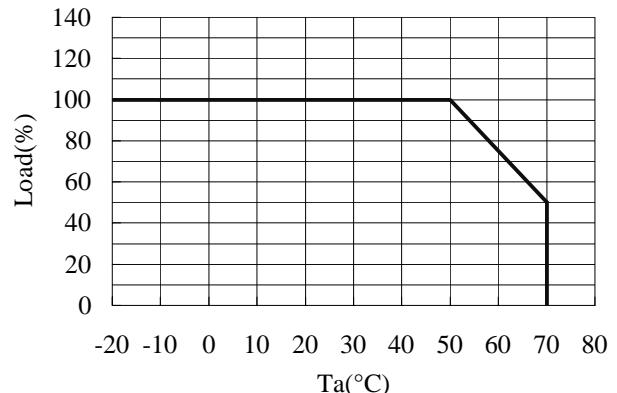
*2 : Refer to instruction manual.

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

*4 : From 4.5 to 9VDC 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

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

3A

Vin
4.5-9.0VDC

C1 *2

+Vin

-Vin

+Vout

TRM

-Vout

C2
47uF

+

LOAD

-

L=50mm
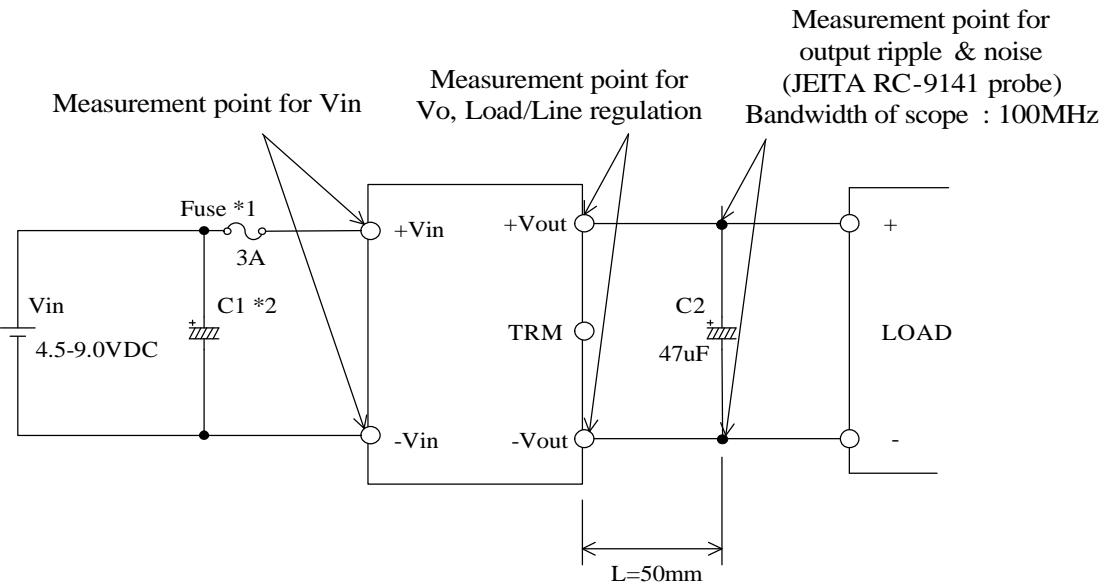
Value of I^2t (typ)   0.003 (A^2s)

NOTE

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

*2 : When the input line impedance is high, insert input capacitor C1 more than 220uF.
(Refer to instruction manual.)

*3 : Refer to instruction manual for furthuer details.