

PH150F280

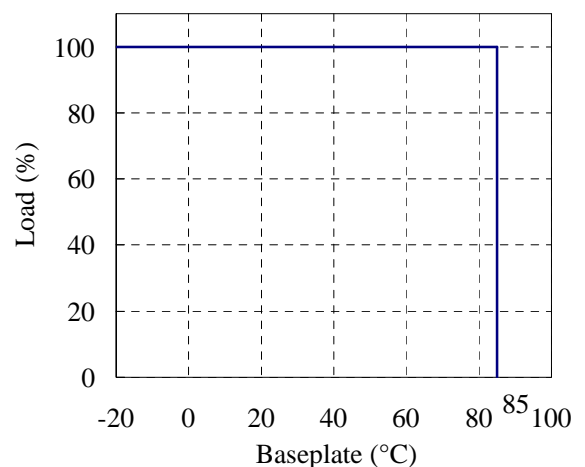
## SPECIFICATIONS

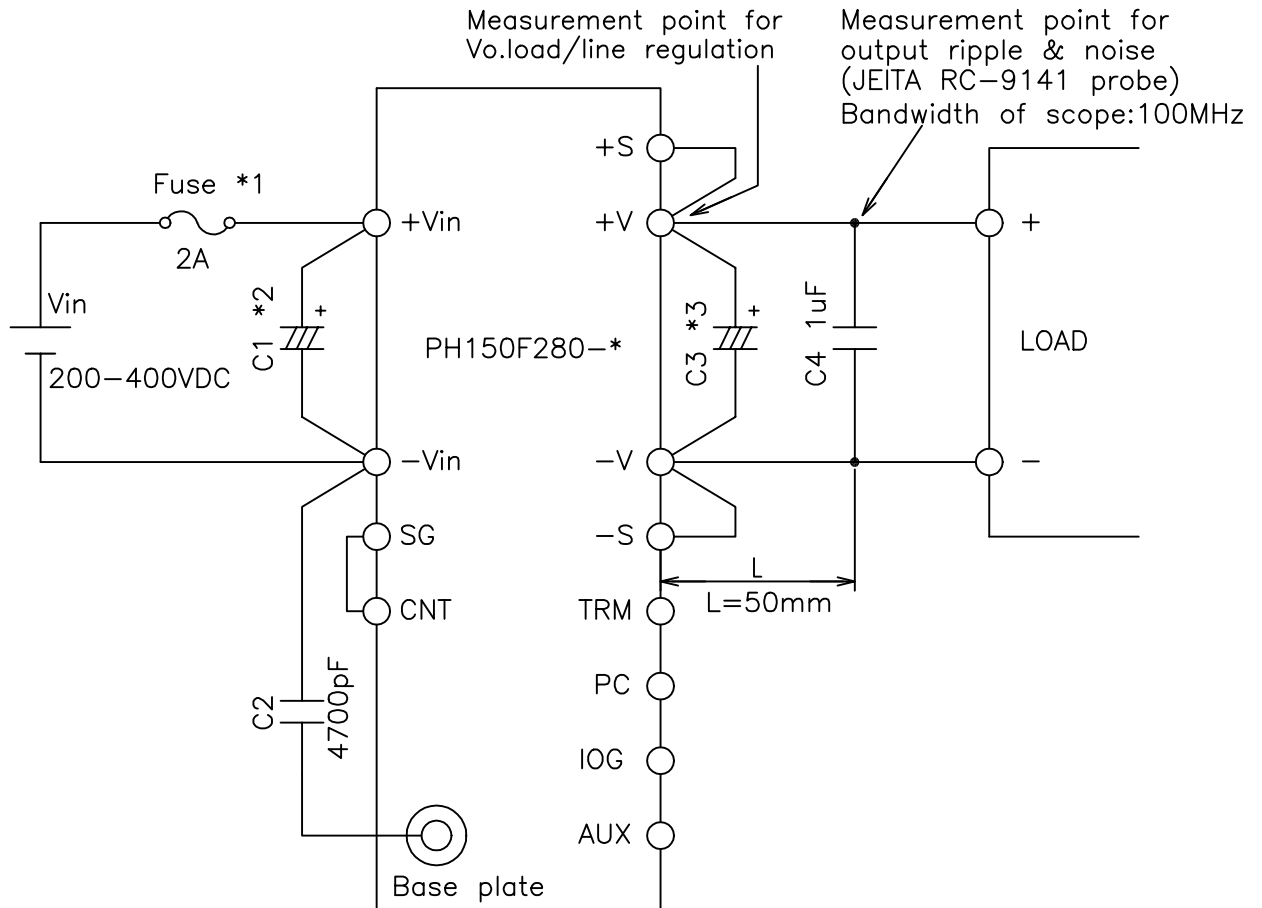
C075-01-01B

MODEL			PH150F	PH150F	PH150F	PH150F	PH150F	PH150F	PH150F	
ITEMS			280-2	280-3	280-5	280-12	280-15	280-24	280-28	
1	Nominal Output Voltage	V	2	3	5	12	15	24	28	
2	Maximum Output Current	A	30	30	30	12.5	10	6.3	5.4	
3	Nominal Output Power	W	60	90	150	150	150	151.2	151.2	
4	Efficiency (Typ.)	(*1) %	68	73	83	86	87	90	90	
5	Input Voltage Range	-	200 - 400VDC							
6	Input Current (Typ.)	(*1) A	0.31	0.44	0.65	0.62	0.62	0.60	0.60	
7	Output Voltage Accuracy	(*1) %	±1							
8	Output Voltage Range	(*10) -	±20%			+20%, -60%				
9	Maximum Ripple & Noise	(*9) mV	100	100	100	150	150	240	280	
10	Maximum Line Regulation	(*2) mV	20	20	20	48	60	96	112	
11	Maximum Load Regulation	(*3) mV	40	40	40	96	120	192	224	
12	Over Current Protection	(*4) A	105% - 140%							
13	Over Voltage Protection	(*5) V	165% - 240%			125% - 145%				
14	Remote Sensing	(*8) -	Possible							
15	Remote ON/OFF Control	(*8) -	Possible (SHORT:ON OPEN:OFF)							
16	Parallel Operation	(*8) -	Possible							
17	Series Operation	(*8) -	Possible							
18	I.O.G. Signal	(*8) -	Possible (Open Collector Output)							
19	Operating Temperature	(*6) -	-20 - 85°C (Base plate) Ambient Temperature MIN =-20°C							
20	Operating Humidity	-	30 - 95%RH (No Dewdrop)							
21	Storage Temperature	-	-40°C - + 85°C							
22	Storage Humidity	-	10 - 95%RH (No Dewdrop)							
23	Cooling	(*7) -	Conduction Cooled							
24	Temperature Coefficient (%)	-	0.02%/°C							
25	Withstand Voltage	-	Input-Baseplate : 2.5kVAC, Input-Output : 3kVAC(20mA) for 1min Output-Baseplate : 500VDC for 1min							
26	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-Baseplate...500VDC							
27	Vibration	-	At No Operating, 10-55Hz (Sweep for 1min) Amplitude 0.825mm Constant (Maximum 49.0m/s <sup>2</sup> ) X,Y,Z 1h each							
28	Shock	-	196.1m/s <sup>2</sup> (In package)							
29	Weight (Typ.)	g	180							
30	Size (WxHxD)	mm	83 x 12.7 x 86 (Refer to Outline Drawing)							

=NOTES=

- \*1. At 280VDC and Maximum Output Current.
- \*2. 200 - 400VDC, Constant Load.
- \*3. No load - Full load, Constant input voltage.
- \*4. Constant current limiting with automatic recovery.
- \*5. Inverter shutdown method, Manual Reset.
- \*6. Ratings - Refer to Derating Curve on the Right.  
- Load(%) is Percent of Maximum Output Current.
- \*7. Heatsink has to be Chosen According to Instruction Manual.
- \*8. Refer to Instruction Manual.
- \*9. External Components are Needed for Operation.  
(Refer to Basic Connection and Instruction Manual)
- \*10. At 280VDC Input.(Refer to Instruction Manual.)

**\*DERATING CURVE\***



==NOTE==

- \*1. Use an external fuse of fast blow type, for each unit.
- \*2. When the input line impedance is high, insert input capacitor, C1, more than 22uF. (Refer to instruction manual)
- \*3. Put an output capacitor. (2,3V: more than 2,200uF, 5V: more than 1,000uF, 12V: more than 470uF, 15V: more than 470uF, 24V: more than 220uF, 28V: more than 220uF)
- \*4. Refer to instruction manual for further details.

(unit : mm)

MODEL NAME	PH150F280
<b>DENSEI-LAMBDA</b>	

C075-01-02C