

## PH150S280

## SPECIFICATIONS

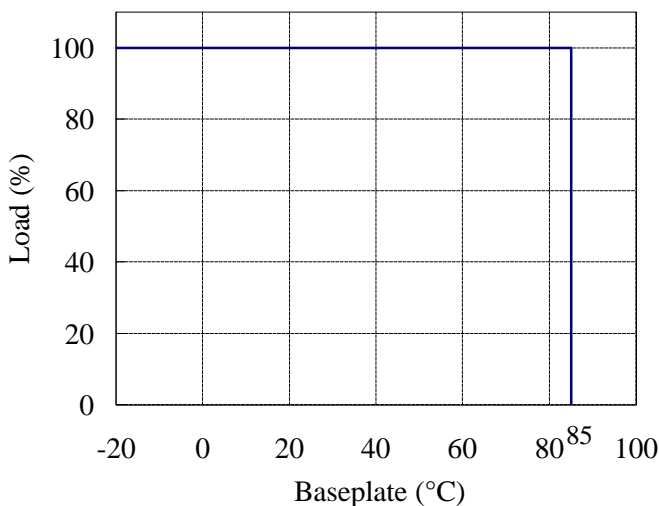
C095-01-01C

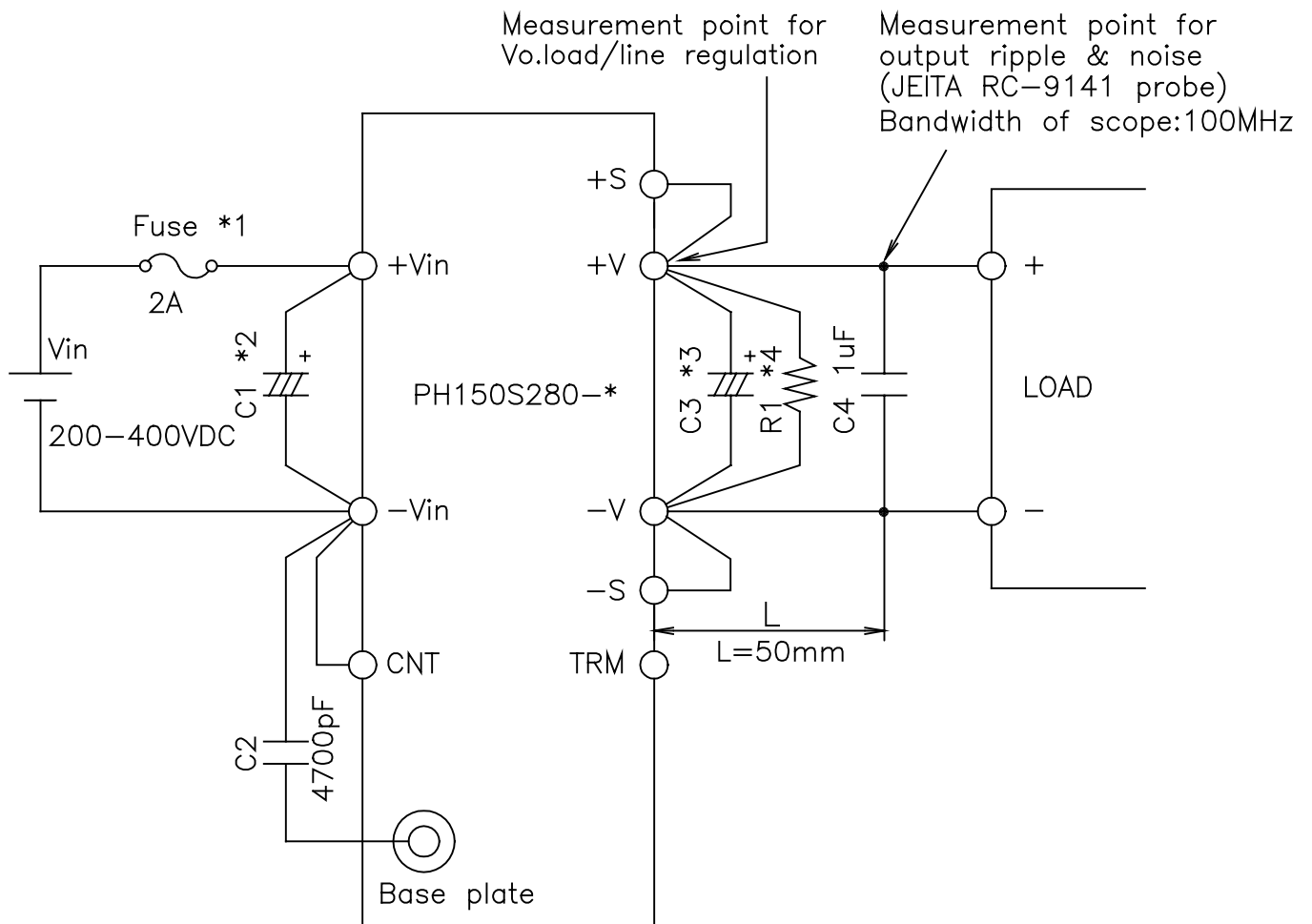
ITEMS		MODEL	PH150S 280-3.3	PH150S 280-5	PH150S 280-12	PH150S 280-15	PH150S 280-24	PH150S 280-28
1	Nominal Output Voltage	V	3.3	5	12	15	24	28
2	Maximum Output Current	A	30	30	12.5	10	6.3	5.4
3	Nominal Output Power	W	99	150	150	150	151.2	151.2
4	Efficiency (Typ.)	(*1) %	75	82	85	85	88	88
5	Input Voltage Range	-	200 - 400VDC					
6	Input Current (Typ.)	(*1) A	0.47	0.65	0.63	0.63	0.61	0.61
7	Output Voltage Accuracy	(*1) -	±1%					
8	Output Voltage Range	(*8) -	+10%, -10% (At 280VDC Input)					
9	Maximum Ripple & Noise	(*9) mV	100	100	150	150	240	280
10	Maximum Line Regulation	(*2) mV	20	20	48	60	96	112
11	Maximum Load Regulation	(*3) mV	40	40	96	120	192	224
12	Over Current Protection	(*4) -	105 - 150%					
13	Over Voltage Protection	(*5) -	165 - 240%	125 - 145%				
14	Remote Sensing	-	Possible					
15	Remote ON/OFF Control	(*8) -	Possible (SHORT:ON OPEN:OFF)					
16	Parallel Operation	-	—					
17	Series Operation	(*8) -	Possible					
18	Operating Temperature	(*6) -	-20°C - +85°C(Baseplate) Ambient Temperature min=-20°C					
19	Operating Humidity	-	30 - 95%RH (No Dewdrop)					
20	Storage Temperature	-	-40°C - + 85°C					
21	Storage Humidity	-	10 - 95%RH (No Dewdrop)					
22	Cooling	(*7) -	Conduction Cooled					
23	Temperature Coefficient (%)	-	0.02%/°C					
24	Withstand Voltage	-	Input-Baseplate : 2.5kVAC, Input-Output : 3kVAC (20mA) for 1min, Output-Baseplate : 500VDC for 1min					
25	Isolation Resistance	-	More than 100MΩat 25°C and 70%RH Output-Baseplate...500VDC					
26	Vibration	-	At No Operating, 10 - 55Hz Amplitude (Sweep for 1min) 0.825mm Constant (Maximum 49.0m/s <sup>2</sup> ) X,Y,Z 1 h each					
27	Shock	-	196.1m/s <sup>2</sup> (In package)					
28	Weight (Typ.)	-	150g					
29	Size (W X H X D)	mm	72 X 12.7 X 86 (Refer to Outline Drawing)					

=NOTE=

- \*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)

## \*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 22 $\mu$ F. (Refer to instruction manual)
- \*3. Put an output capacitor. (3.3V,5V: more than 1000 $\mu$ F, 12V: more than 470 $\mu$ F, 15V: more than 470 $\mu$ F, 24V: more than 220 $\mu$ F, 28V: more than 220 $\mu$ F)
- \*4. Set the minimum load current (more than 3% of rated current) in order to prevent recurrent output voltage dropout (due to continuous skip cycle) under dynamic load conditions.
- \*5. Refer to instruction manual for further details.

(unit : mm)

MODEL NAME	PH150S280
<b>DENSEI-LAMBDA</b>	

C095-01-02D