

PH300S280

SPECIFICATIONS

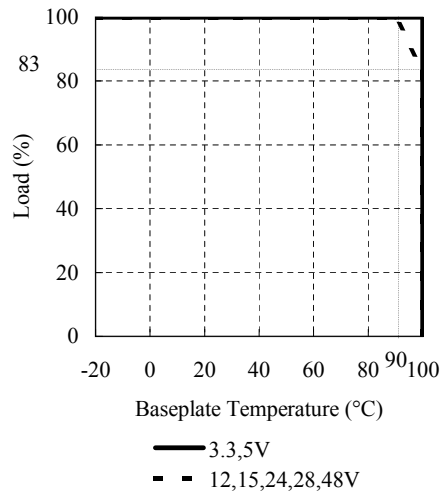
C113-01-01C

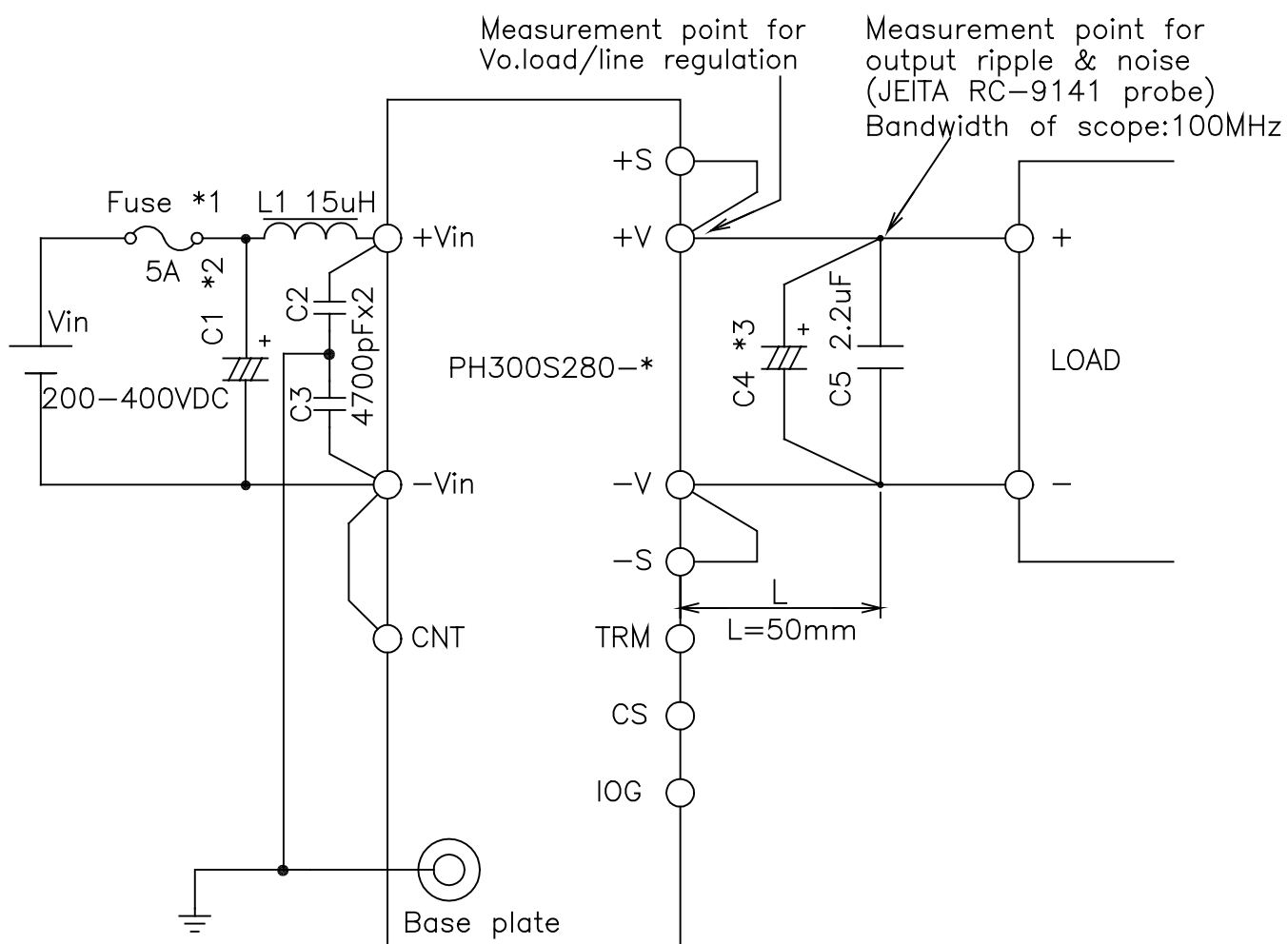
MODEL		PH300S 280-3.3	PH300S 280-5	PH300S 280-12	PH300S 280-15	PH300S 280-24	PH300S 280-28	PH300S 280-48		
1	Nominal Output Voltage	V	3.3	5	12	15	24	28	48	
2	Maximum Output Current	A	50	50	25	20	12.5	10.8	6.3	
3	Nominal Output Power	W	165	250	300	300	300	302.4	302.4	
4	Efficiency (Typ.) (*1)	%	80	85	88	88	88	88	88	
5	Input Voltage Range	-	200 - 400VDC							
6	Input Current (Typ.) (*1)	A	0.74	1.05	1.22	1.22	1.22	1.23	1.23	
7	Output Voltage Accuracy (*1)	-	±1%							
8	Output Voltage Range (*10)	%	+20,-10			±10			+20,-10	
9	Maximum Ripple & Noise (*9)	0 - +100°C	mV	100	100	150	150	240	280	480
		-20 - 0°C	mV	150	150	225	225	360	420	720
10	Maximum Line Regulation (*2)	mV	20	20	48	60	96	112	192	
11	Maximum Load Regulation (*3)	mV	40	40	96	120	192	224	384	
12	Over Current Protection (*4)	-	105 - 150%							
13	Over Voltage Protection (*5)	%	125-170	125 - 145						
14	Remote Sensing (*8)	-	Possible							
15	Remote ON/OFF Control (*8)	-	Possible (SHORT:ON OPEN:OFF)							
16	Parallel Operation (*11)	-	Applicable with CS signal							
17	Series Operation (*8)	-	Possible							
18	I.O.G. Signal (*8)	-	Built-in (Open collector Output)							
19	Operating Temperature (*6)	-	-20°C - +100°C(Baseplate) Ambient Temperature min=-20°C							
		-	-20 - +100°C :100%	-20 - +90°C :100% , +100°C:83%						
20	Operating Humidity	-	30 - 95%RH (No Dewdrop)							
21	Storage Temperature	-	-40°C - + 100°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>							
29	Weight (Typ.)	-	200g							
30	Size (WxHxD)	mm	83 x 12.7 x 86 (Refer to Outline Drawing)							

=NOTES=

- \*1. At 280VDC and Maximum Output Current.  
(Baseplate Temperature = +25°C)
- \*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 with CNT signal.
- \*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.)
- \*11.External circuit is Needed for operation .  
(Refer to Instruction Manual)

DERATING CURVE





==NOTE==

- \*1. Use an external fuse of fast blow type, for each unit.
- \*2. Put an input capacitor,  $C1$ , more than 22uF. (Refer to instruction manual)
- \*3. Put an output capacitor. (3.3V: more than 4,700uF, 5V: more than 3,900uF, 12V: more than 1,000uF, 15V: more than 1,000uF, 24V: more than 560uF, 28V: more than 470uF, 48V: more than 220uF)
- \*4. Refer to instruction manual for further details.

(unit : mm)	
MODEL NAME	PH300S280
<b>DENSEI-LAMBDA</b>	

C113-01-02B