PH75S280

SPECIFICATIONS

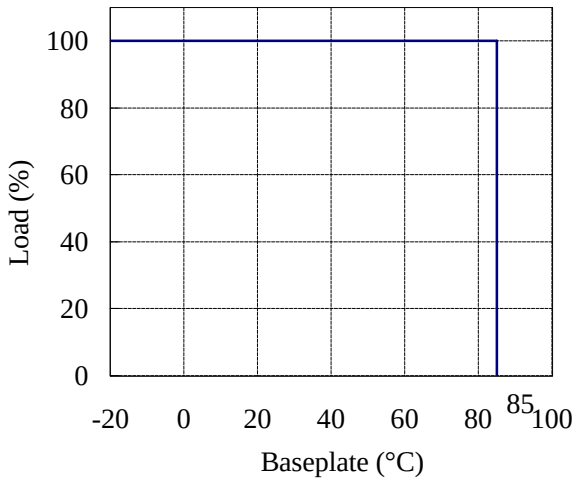
C084-01-01D

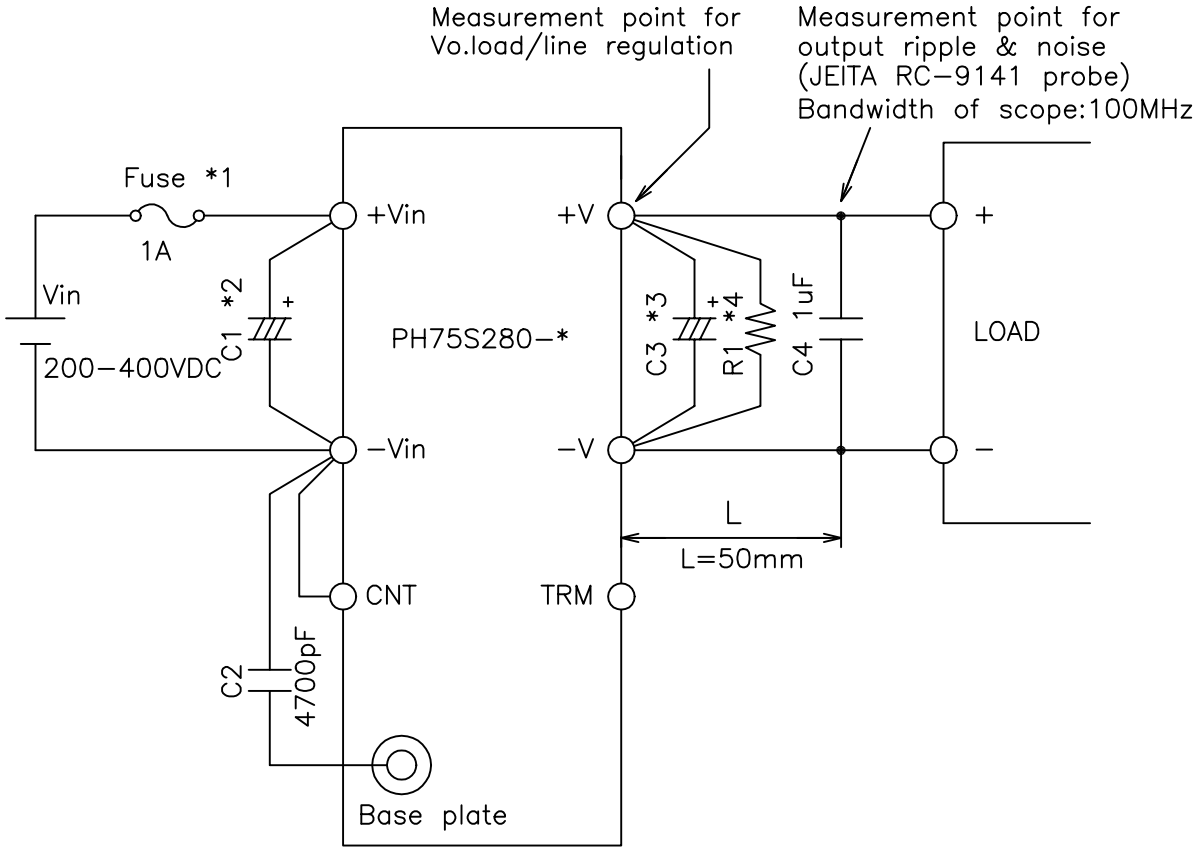
	ITEMS / MODEL			PH75S 280 -3.3	PH75S 280 -5	PH75S 280 -12	PH75S 280 -15	PH75S 280 -24	PH75S 280 -28
1	Nominal Output Voltage		V	3.3	5	12	15	24	28
2	Maximum Output Current		A	15	15	6.3	5	3.2	2.7
3	Nominal Output Power		W	49.5	75	75.6	75	76.8	75.6
4	Efficiency (Typ.)	(*1)	%	72	81	83	84	85	85
5	Input Voltage Range		-	200 ~ 400VDC					
6	Input Current (Typ.)	(*1)	A	0.25	0.33	0.33	0.32	0.32	0.32
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)	A	105~150%					
13	Over Voltage Protection	(*5)	V	165~240%	125~145%				
14	Remote Sensing		-	———					
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 100MΩ at 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^2) X,Y,Z 1h each					
27	Shock		-	196.1m/s^2 (In package)					
28	Weight (Typ.)		-	100g					
29	Size (WxHxD)		mm	41 x 12.7 x 86 (Refer to Outline Drawing)					

=NOTE=

*1. At 280VDC and Maximum Output Current.
*2. 200 ~ 400 VDC, 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 10uF. (Refer to instruction manual)

*3. Put an output capacitor. (3.3V,5V: more than 470uF, 12V: more than 220uF 15V: more than 220uF, 24V: more than 120uF, 28V: more than 100uF)

*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	PH75S280
DENSEI-LAMBDA	

C084-01-02E