PH75S48

SPECIFICATIONS

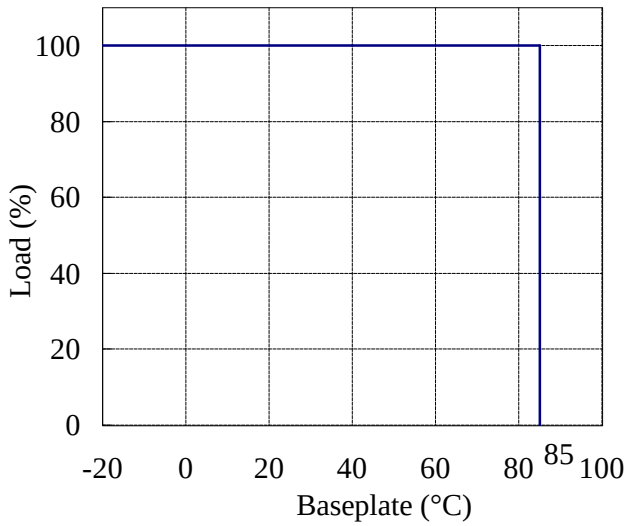
C083-01-01D

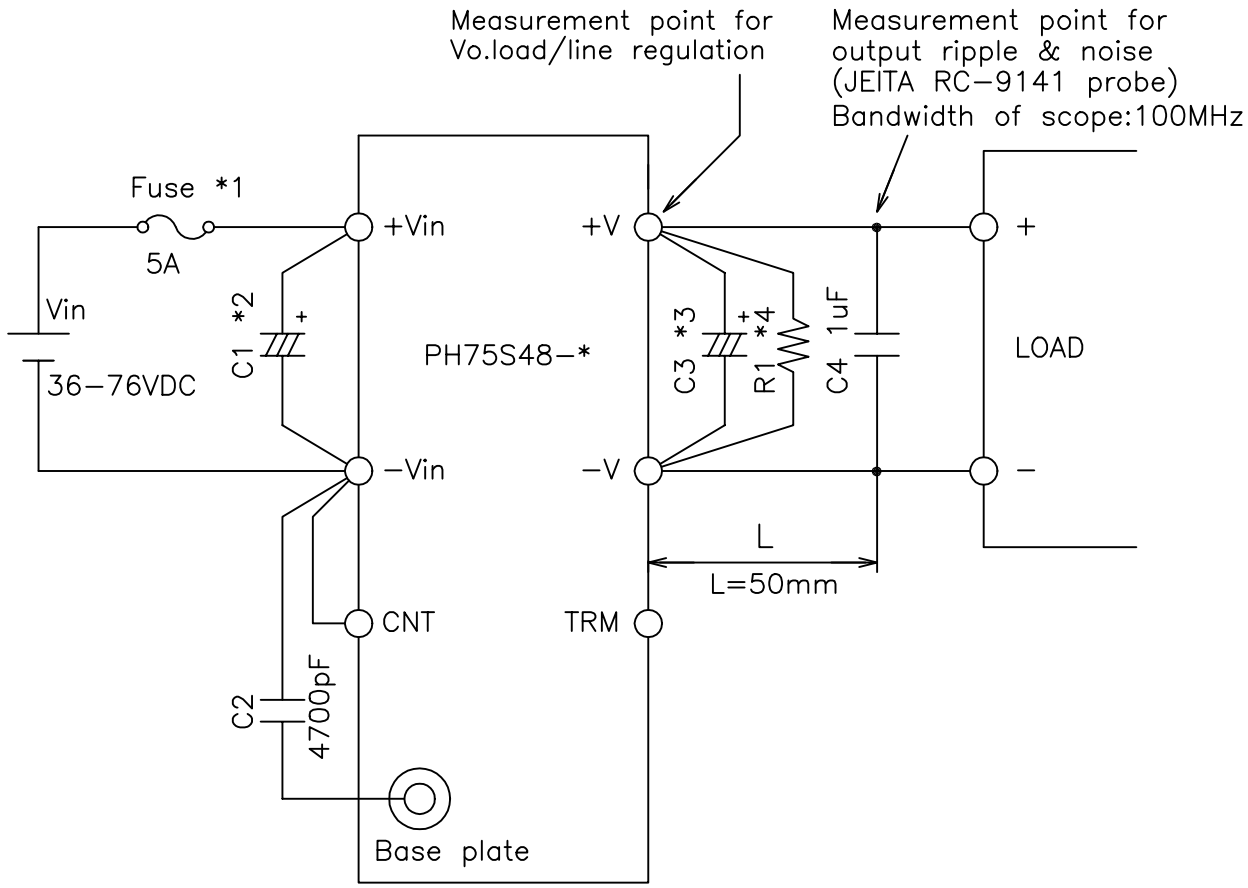
	ITEMS \ MODEL		PH75S 48 -3.3	PH75S 48 -5	PH75S 48 -12	PH75S 48 -15	PH75S 48 -24	PH75S 48 -28	
1	Nominal Output Voltage	V	3.3	5	12	15	24	28	
2	Maximum Output Current	A	15	15	6.3	5	3.2	2.7	
3	Nominal Output Power	W	49.5	75	75.6	75	76.8	75.6	
4	Efficiency (Typ.) (*1)	%	72	81	83	84	85	85	
5	Input Voltage Range	–	36 - 76VDC						
6	Input Current (Typ.) (*1)	A	1.43	1.93	1.90	1.86	1.88	1.85	
7	Output Voltage Accuracy (*1)	–	±1%						
8	Output Voltage Range (*8)	–	+10%, -10% (At 48VDC 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	–	————						
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 48VDC and Maximum Output Current.
*2. 36 - 76 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 100uF. (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	PH75S48
DENSEI-LAMBDA	

C083−01−02E