

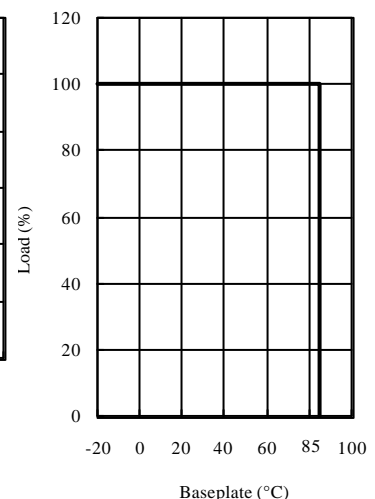
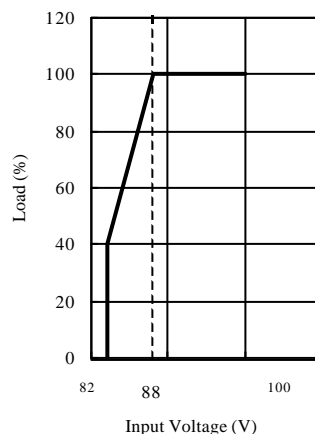
SPECIFICATION

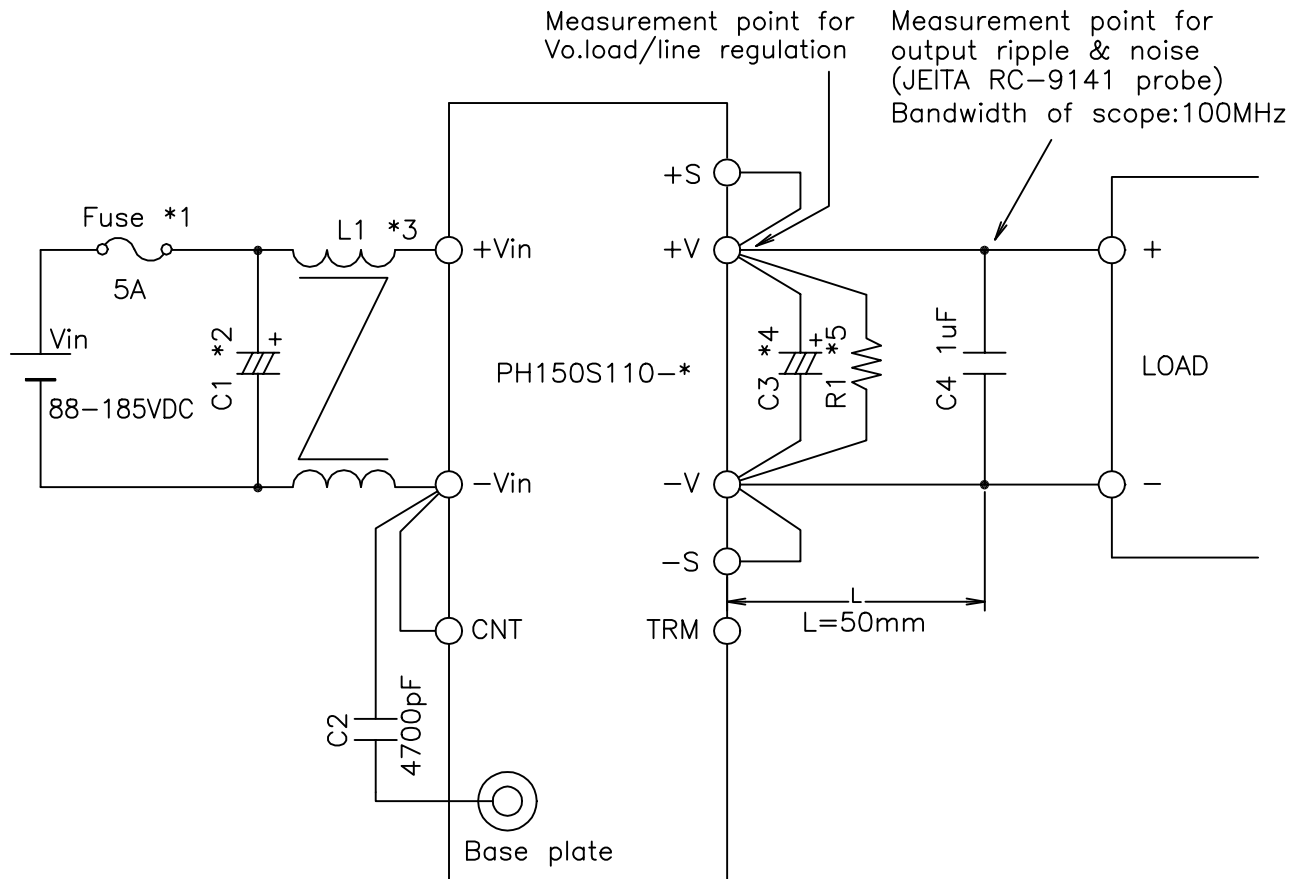
C104-01-01B

MODEL			PH150S 110-5	PH150S 110-12	PH150S 110-15	PH150S 110-24	PH150S 110-28
1	Nominal Output Voltage	V	5	12	15	24	28
2	Maximum Output Current	A	30	12.5	10	6.3	5.4
3	Nominal Output Power	W	150	150	150	151.2	151.2
4	Efficiency (Typ.) (*1)	%	82	85	85	88	88
5	Input Voltage Range (*6)	-	82 - 185VDC				
6	Input Current (Typ.) (*1)	A	1.66	1.60	1.60	1.56	1.56
7	Output Voltage Accuracy (*1)	%	±1				
8	Output Voltage Range (*8)	-	+10%, -10%(At 110VDC Input)				
9	Maximum Ripple & Noise (*9)	mV	100	150	150	240	280
10	Maximum Line Regulation (*2)	mV	20	48	60	96	112
11	Maximum Load Regulation (*3)	mV	40	96	120	192	224
12	Over Current Protection (*4)	-	105% - 150%				
13	Over Voltage Protection (*5)	-	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 100M Ω at 25°C and 70%RH Output-Baseplate...500VDC				
26	Vibration	-	At No Operating, 10-55Hz (Sweep for 1min) Amplitude 0.825mm Constant (Maximum 49.0m/s ²) X,Y,Z 1 h each				
27	Shock	-	196.1m/s ² (In package)				
28	Weight (Typ.)	-	150g				
29	Size (WxHxD)	mm	72 x 12.7 x 86 (Refer to Outline Drawing)				

=NOTES=

- *1. At 110VDC and Maximum Output Current.
- *2. 88 - 185VDC, 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)





==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 220uF. (Refer to instruction manual)
- *3. Put an input common mode choke coil, L1, more than 1mH.
- *4. Put an output capacitor. (5V: more than 1000uF, 12V: more than 470uF, 15V: more than 470uF, 24V: more than 220uF, 28V: more than 220uF)
- *5. 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.
- *6. Refer to instruction manual for further details.

(unit : mm)

MODEL NAME	PH150S110
DENSEI-LAMBDA	

C104-01-02B