

PAH300S48-\*

## SPECIFICATIONS

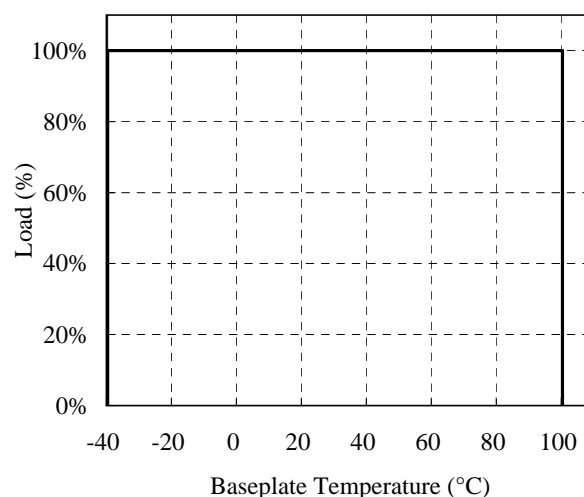
C174-01-01

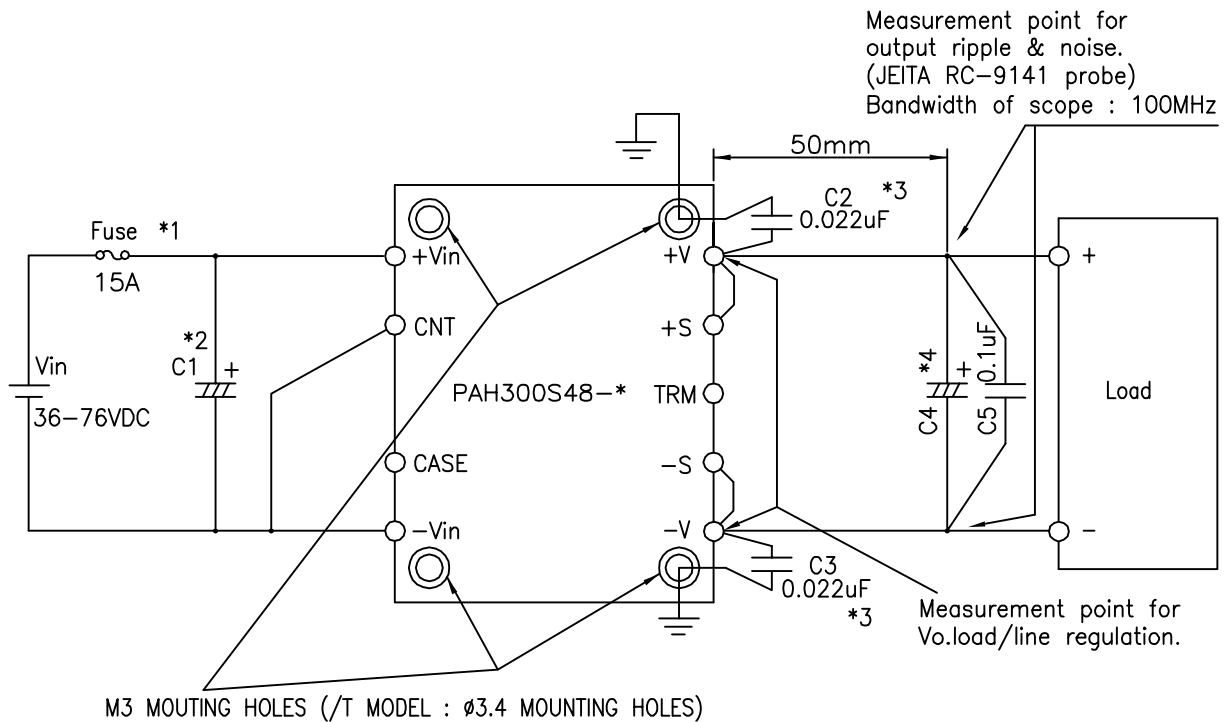
MODEL			PAH300S48-12	PAH300S48-28
ITEMS				
1	Nominal Output Voltage	V	12	28
2	Maximum Output Current	A	25	11
3	Maximum Output Power	W	300	308
4	Efficiency (Typ.) (*1)	%	90	90
5	Input Voltage Range	-	36 - 76VDC	
6	Input Current (Typ.) (*2)	A	7.02	7.21
7	Output Voltage Accuracy (*2)	%	±1	
8	Output Voltage Range (*10)	-	-40%, +10%	-40%, +18%
9	Maximum Ripple & Noise (*10)	mV	200	240
10	Maximum Line Regulation (*3)	mV	24	56
11	Maximum Load Regulation (*4)	mV	24	56
12	Over Current Protection (*5)	-	105% - 140%	
13	Over Voltage Protection (*6)(*9)	-	115% - 135%	125% - 140%
14	Remote Sensing (*9)	-	Possible	
15	Remote ON/OFF Control (*9)	-	Possible (SHORT : ON OPEN : OFF)	
16	Parallel Operation (*9)	-	Possible	
17	Series Operation (*9)	-	Possible	
18	Operating Temperature (*7)	-	-40°C - +100°C(Baseplate) Ambient Temperature min=-40°C	
19	Operating Humidity	-	5 - 95%RH (No Dewdrop)	
20	Storage Temperature	-	-40°C - +100°C	
21	Storage Humidity	-	5 - 95%RH (No Dewdrop)	
22	Cooling (*8)	-	Conduction Cooled	
23	Temperature Coefficient (%)	-	0.02%/°C	
24	Withstand Voltage	-	Input-Baseplate : 1.5kVDC, Input-Output : 1.5kVDC 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 (Sweep for 1min.) Amplitude 0.825mm Constant (Maximum 49.0m/s <sup>2</sup> ) X,Y,Z 1 hour each	
27	Shock	-	196.1m/s <sup>2</sup>	
28	Weight (Typ.)	g	90	
29	Size (W x H x D)	mm	61 x 12.7 x 57.9 (Refer to Outline Drawing)	

=NOTES=

- \*1. At 48VDC, 80% of Maximum Output Current and Baseplate Temperature = +25°C.
- \*2. At 48VDC and Maximum Output Current.
- \*3. 36 - 76VDC, Constant Load.
- \*4. No load - Full load, Constant input voltage.
- \*5. Constant current limiting with automatic recovery.
- \*6. Inverter shutdown method, Manual Reset.
- \*7. Ratings - Refer to Derating Curve on the Right.  
- Load(%) is Percent of Maximum Output Current.
- \*8. Heatsink has to be Chosen According to Instruction Manual.
- \*9. Refer to Instruction Manual.
- \*10 External Components are Needed for Operation.  
(Refer to Basic Connection and Instruction Manual)

Derating Curve





==NOTES==

- \*1. Use external fuse of fast blow type, for each unit.
- \*2. Put input capacitor, C1, more than 33uF each.  
If the ambient temperature is less than  $-20^{\circ}\text{C}$ ,  
use 2 pieces of the recommended capacitor above.  
If the impedance of input line is high,  
C1 capacitance must be more than above.
- \*3. Connect capacitors between +V and the nearest M3 mounting  
hole and between -V and the nearest M3 mounting hole.  
However, for cases where baseplate is connected to  
+V or -V, use the nearest M3 mounting hole.  
For this type connection, C2 and C3 can be omitted.
- \*4. Put output capacitor, C4 (12V: more than 470uF,  
28V: more than 220uF.)  
If the ambient temperature is less than  $-20^{\circ}\text{C}$ ,  
use 3 pieces of the recommended capacitor above.
- \*5. Refer to instruction manual for further details.

(unit : mm)

MODEL NAME	PAH300S48
<b>DENSEI-LAMBDA</b>	

C174-01-02A