

PAH100S48
PA551-01-01D

SPECIFICATIONS

ITEMS			MODEL	PAH100S48						
				2.5	3.3	5	12	15	24	28
1	NOMINAL OUTPUT VOLTAGE	V		2.5	3.3	5	12	15	24	28
2	MINIMUM OUTPUT CURRENT	A		0	0	0	0	0	0	0
3	MAXIMUM OUTPUT CURRENT	A		23.4	23.4	20.0	8.4	6.7	4.2	3.6
4	MAXIMUM OUTPUT POWER	W		58.5	77.22	100.0	100.8	100.5	100.8	100.8
5	EFFICIENCY (TYP) (*1)	%		75	80	84	86	86	88	88
6	INPUT VOLTAGE RANGE	V		36 ~ 76 VDC						
7	INPUT CURRENT (TYP) (*1)	A		1.63	2.01	2.48	2.44	2.44	2.39	2.39
8	OUTPUT VOLTAGE ACCURACY (*1)	%		±1.6						
9	OUTPUT VOLTAGE ADJUSTABLE RANGE (*2)	%		±10	±10	+15, -40	+10, -40			
10	MAXIMUM OUTPUT RIPPLE & NOISE (*3)	-20 ~ +100°C	mV	150	150	150	200	200	240	280
		-40 ~ -20°C	mV	200	200	200	250	250	300	350
11	MAXIMUM LINE REGULATION (*4)	mV		10	10	10	24	30	48	56
12	MAXIMUM LOAD REGULATION (*5)	mV		10	10	10	24	30	48	56
13	OVER CURRENT PROTECTION (OCP) (*6)	%		105 ~ 150						
14	OVER VOLTAGE PROTECTION (OVP) (*7)		%	120 ~ 160	120 ~ 140	125 ~ 145				
				INVERTER SHUTDOWN (OPTION AVAILABLE:REFER TO OPTION TABLE)						
15	OVER TEMPERATURE PROTECTION (OTP)	-		SHUTDOWN ; AUTO-RESTART WHEN UNIT COOL DOWN						
16	REMOTE SENSING (*10)	-		POSSIBLE (CONNECT +S AND -S TERMINALS TO LOAD)						
17	REMOTE ON/OFF CONTROL (*8)	-		NEGATIVE LOGIC (OPTION AVAILABLE:REFER TO OPTION TABLE)						
18	PARALLEL OPERATION	-		-----						
19	SERIES OPERATION	-		POSSIBLE						
20	OPERATING TEMPERATURE	°C		-40°C ~ +100°C (BASEPLATE) AMBIENT TEMPERATURE MIN = -40°C						
21	OPERATING HUMIDITY	%RH		30 ~ 95 (NO DEWDROP)						
22	STORAGE TEMPERATURE	°C		-40°C ~ +100°C (BASEPLATE) AMBIENT TEMPERATURE MIN = -40°C						
23	STORAGE HUMIDITY	%RH		30 ~ 95 (NO DEWDROP)						
24	COOLING (*9)	-		CONDUCTION COOLED						
25	TEMPERATURE COEFFICIENT (%)	%/°C		0.02						
26	WITHSTAND VOLTAGE	-		INPUT - OUTPUT : 1.5kVAC, INPUT - BASEPLATE : 1.5kVAC (20mA) FOR 1 MIN OUTPUT - BASEPLATE : .500VDC FOR 1 MIN						
27	ISOLATION RESISTANCE	-		MORE THAN 100MOHM AT 25°C AND 70 %RH, OUTPUT - BASEPLATE : 500 VDC						
28	VIBRATION	-		AT NO OPERATING, 10 ~ 55Hz AMPLITUDE (SWEEP 1 MIN) 0.825mm CONSTANT (MAXIMUM 49.0m/s ²) X,Y,Z 1 HR EACH						
29	SHOCK	m/s ²		196.1						
30	WEIGHT	g		80						
31	SIZE (W x H x D)	mm		57.9 x 12.7 x 61 (REFER TO OUTLINE DRAWING)						

NOTES :

- *1 : AT 48 VDC, MAXIMUM OUTPUT POWER AND BASEPLATE TEMPERATURE = +25°C.
- *2 : ADDITIONAL EXTERNAL COMPONENTS HAVE TO BE CONNECTED; REFER TO APPLICATION NOTES.
- *3 : EXTERNAL COMPONENTS ARE NEEDED; REFER TO BASICAL CONNECTION DRAWING.
- *4 : 36 ~ 76 VDC, CONSTANT LOAD.
- *5 : NO LOAD ~ FULL LOAD, CONSTANT INPUT VOLTAGE.
- *6 : CURRENT LIMITING WITH AUTOMATIC RECOVERY.
- *7 : CNT RESET OR MANUAL RESET.
- *8 : REFER TO APPLICATION NOTES.
- *9 : HEATSINK HAS TO BE CHOSEN ACCORDING TO APPLICATION NOTES.
- *10 : IF REMOTE SENSING IS NOT REQUIRED, CONNECT +S AND -S TO +V AND -V RESPECTIVELY (REFER TO BASICAL CONNECTION).

OPTION TABLE:

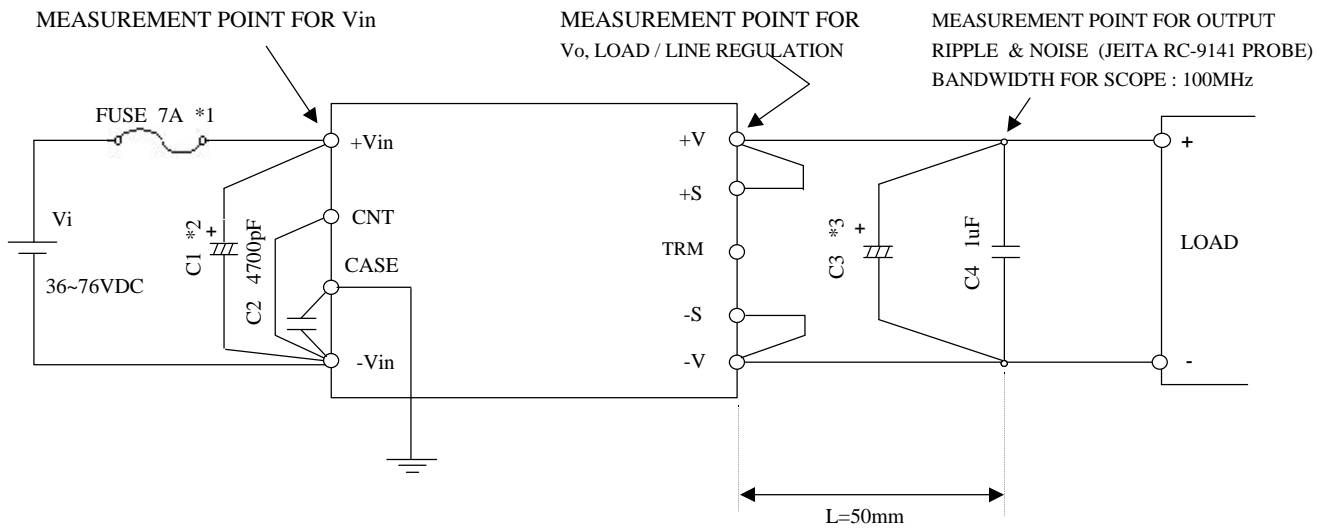
OPTION	ON/OFF LOGIC	OVP
STANDARD	NEGATIVE (H: OFF, L: ON)	SHUT-DOWN (ON/OFF CONTROL RESET
/P	POSITIVE (H: ON, L: OFF)	OR MANUAL RESET)
/V	NEGATIVE (H: OFF, L: ON)	AUTO RESTART
/PV	POSITIVE (H: ON, L: OFF)	

EXAMPLE: PAH100S48-5/P REPRESENT POSITIVE LOGIC & OVP SHUT-DOWN

BASICAL CONNECTION

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EX. NEGATIVE LOGIC BASIC CONNECTION**NOTES**

*1 : USE AN EXTERNAL FUSE (FAST BLOW TYPE) FOR EACH UNIT.

*2 : RECOMMENDED INPUT CAPACITOR C1

-20 °C ~ +100°C : 33uF ELECTROLYTIC OR CERAMIC TYPE CAPACITOR.

-40 °C ~ +100°C : 33uF CERAMIC TYPE CAPACITOR OR EQUIVALENT SUCH AS 5 PARALLEL 6.8uF CERAMIC TYPE CAPACITOR.

*3 : RECOMMENDED OUTPUT CAPACITOR C3

-20 °C ~ +100°C : 2.5V, 3.3V & 5V - 2200uF (ELECTROLYTIC CAPACITOR)

12V & 15V - 470uF (ELECTROLYTIC CAPACITOR)

24V & 28V - 220uF (ELECTROLYTIC CAPACITOR)

-40 °C ~ +100°C : FOR THIS TEMPERATURE RANGE, USE TWO PIECES OF THE RECOMMENDED CAPACITOR ABOVE.

OUTPUT DERATING CURVE: