

PAH200S48

PA554-01-01B

SPECIFICATIONS

ITEMS		MODEL	PAH200S48				
			12	15	24	28	
1	NOMINAL OUTPUT VOLTAGE	V	12	15	24	28	
2	MINIMUM OUTPUT CURRENT	A	0	0	0	0	
3	MAXIMUM OUTPUT CURRENT	A	16.7	13.4	8.4	7.2	
4	MAXIMUM OUTPUT POWER	W	200.4	201.0	201.6	201.6	
5	EFFICIENCY (TYP) (*1)	%	85	85	87	87	
6	INPUT VOLTAGE RANGE	V	36 ~ 76 VDC				
7	INPUT CURRENT (TYP) (*1)	A	4.91	4.92	4.82	4.82	
8	OUTPUT VOLTAGE ACCURACY (*1)	%	±1.6				
9	OUTPUT VOLTAGE ADJUSTABLE RANGE (*2)	%	+10, -40				
10	MAXIMUM OUTPUT RIPPLE & NOISE (*3)	-20 ~ +100°C	mV	200	200	240	280
		-40 ~ -20°C	mV	250	250	300	350
11	MAXIMUM LINE REGULATION (*4)	mV	24	30	48	56	
12	MAXIMUM LOAD REGULATION (*5)	mV	24	30	48	56	
13	OVER CURRENT PROTECTION (OCP) (*6)	%	105 ~ 150				
14	OVER VOLTAGE PROTECTION (OVP) (*7)	%	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 (*11)	°C	BASEPLATE -40°C ~ +80°C : 100% OF MAX. LOAD ; MIN. Ta = -40°C +100°C : 90% OF MAX. LOAD				
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 BASIC 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 BASIC CONNECTION).
- *11 : REFER TO OUTPUT DERATING CURVE (PA554-01-02_).

OPTION TABLE:

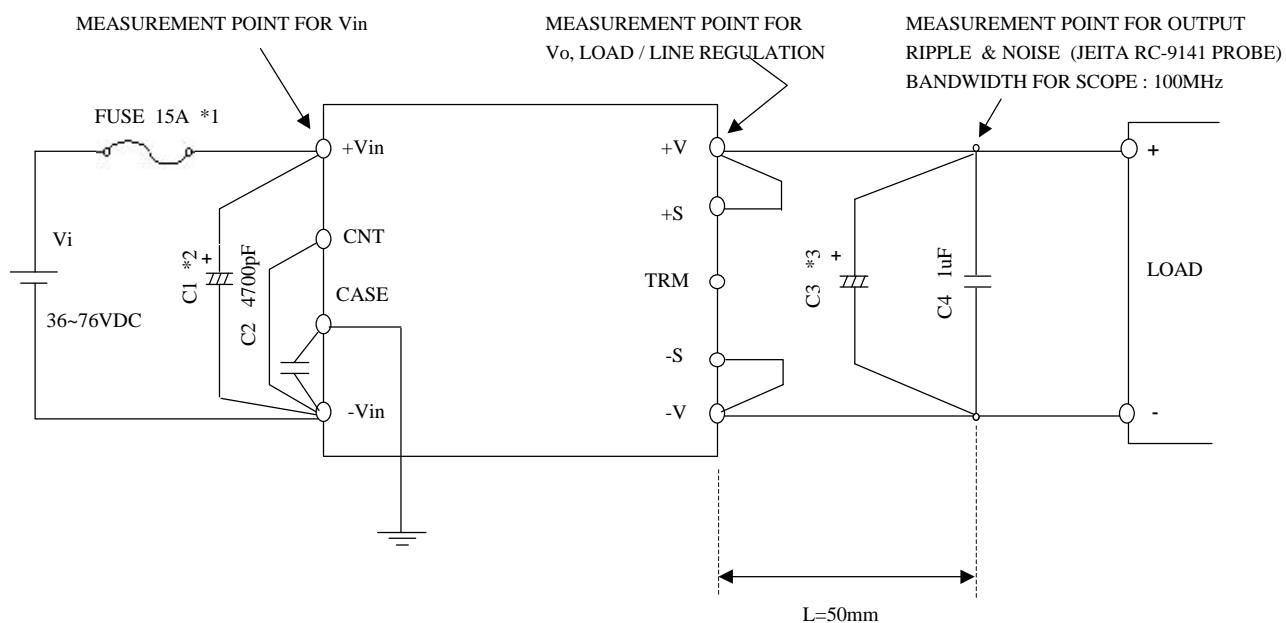
OPTION	ON/OFF LOGIC	OVP
STANDARD	NEGATIVE (H:OFF,L:ON)	SHUT-DOWN (ON/OFF CONTROL RESET OR MANUAL RESET)
/P	POSITIVE (H:ON,L:OFF)	AUTO RESTART
/V	NEGATIVE (H:OFF,L:ON)	
/PV	POSITIVE (H:ON,L:OFF)	

EXAMPLE: PAH200S48-5/P REPRESENT POSITIVE LOGIC & OVP SHUT-DOWN .

BASIC 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 : 12V & 15V - 1000uF (ELECTROLYTIC CAPACITOR)

24V & 28V - 470uF (ELECTROLYTIC CAPACITOR)

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

*4 : RECOMMENDED OUTPUT CAPACITOR C4

-20 °C ~ +100°C : 1uF (CERAMIC CAPACITOR)

-40 °C ~ +100°C : 10uF (CERAMIC CAPACITOR)

OUTPUT DERATING CURVE: