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)		%	125 ~ 145			
		(*7)		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)	℃	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		℃	-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/s²) X,Y,Z 1 HR EACH			
29	SHOCK		m/s²	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).

*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)	
/V	NEGATIVE (H:OFF,L:ON)	AUTO RESTART
/PV	POSITIVE (H:ON,L:OFF)	

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

BASICAL CONNECTION

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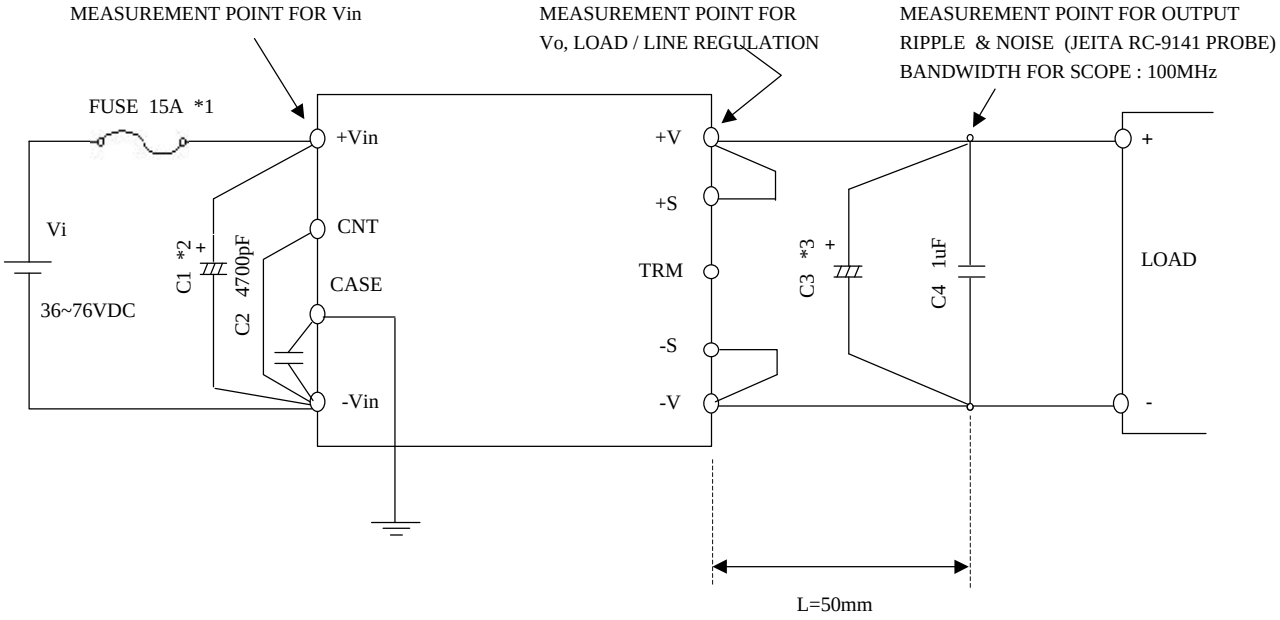
EX. NEGATIVE LOGIC BASIC CONNECTION

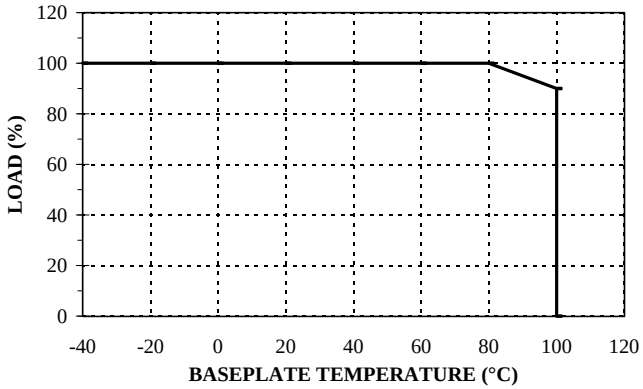


NOTES

*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 : 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: