

PAH75D48

SPECIFICATIONS

PA550-01-01D

MODEL		2518		3318		3325		5033		
		Vo1	Vo2	Vo1	Vo2	Vo1	Vo2	Vo1	Vo2	
1	NOMINAL OUTPUT VOLTAGE	V	2.5	1.8	3.3	1.8	3.3	2.5	5.0	3.3
2	MINIMUM OUTPUT CURRENT	A	0							
3	MAXIMUM OUTPUT CURRENT	A	15	15	15	15	15	15	15	15
4	MAXIMUM OUTPUT POWER (*1)	W	Po1+Po2=45		Po1+Po2=50		Po1+Po2=60		Po1+Po2=75	
5	EFFICIENCY (TYP) (*2)	%	74		78		78		82	
6	INPUT VOLTAGE RANGE	V	36 ~ 76 VDC							
7	INPUT CURRENT (TYP) (*2)	A	1.06		1.33		1.33		1.91	
8	OUTPUT VOLTAGE ACCURACY (*2)	%	± 2							
9	OUTPUT VOLTAGE ADJUSTABLE RANGE (*3)	%	+10,-0	+10,-0	±10	+10,-0	±10	±10	±10	±10
10	MAXIMUM OUTPUT RIPPLE & NOISE (*4)	mV	75	75	100	75	100	75	100	100
11	MAXIMUM LINE REGULATION (*5)	mV	±6.6	±6.6	±6.6	±6.6	±6.6	±6.6	±10	±6.6
12	MAXIMUM LOAD REGULATION (*6)	mV	±16.5	±16.5	±16.5	±16.5	±16.5	±16.5	±25	±16.5
13	OVER CURRENT PROTECTION (OCP) (*7)	%	105~165 Vo2@0A	105~165 Vo1@5A	105~165 Vo2@0A	105~165 Vo1@5A	105~165 Vo2@0A	105~165 Vo1@5A	105~165 Vo2@0A	105~165 Vo1@5A
14	OVER VOLTAGE PROTECTION (OVP) (*9) (*8)	%	115~140	115~150	115~140	115~150	115~140	115~140	125~145	115~140
INVERTER SHUTDOWN (OPTION AVAILABLE : REFER TO OPTION TABLE)										
15	OVER TEMP. PROTECTION (OTP)	-	SHUTDOWN ; AUTO RESTART WHEN UNIT COOL DOWN							
16	REMOTE SENSING	-	-----							
17	REMOTE ON/OFF CONTROL (*9)	-	NEGATIVE LOGIC (OPTION AVAILABLE : REFER TO OPTION TABLE)							
18	PARALLEL OPERATION	-	-----							
19	SERIES OPERATION	-	-----							
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 (*10)	-	CONDUCTION COOLED							
25	TEMPERATURE COEFFICIENT (%)	%/°C	0.02							
26	WITHSTAND VOLTAGE	-	INPUT - OUTPUT : 1.5kVDC, INPUT - BASEPLATE : 1.5kVDC (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	LEAD LENGTH	mm	5.08							
32	SIZE (W x H x D)	mm	57.9 x 12.7 x 61 (REFER TO OUTLINE DRAWING)							

NOTES :

- *1 : COMBINATION OUTPUT POWER FOR BOTH CHANNEL.
- *2 : AT 48 VDC, Vo2 @ 0A, Vo1 @ 15 A AND BASEPLATE TEMPERATURE = +25°C.
- *3 : ADDITIONAL EXTERNAL COMPONENTS HAVE TO BE CONNECTED; REFER TO APPLICATION NOTES.
- *4 : MEASURED AT Tbp=25°C, Vin=48VDC AND WITH EXTERNAL COMPONENTS CONNECTED; REFER TO BASIC CONNECTION DRAWING. FOR ALL OF TEMPERATURE RANGE, PLEASE REFER TO THE APPLICATION NOTE.
- *5 : 36 ~ 76 VDC WITH RESPECT TO NOMINAL INPUT LINE 48V; CONSTANT LOAD; BASEPLATE TEMPERATURE = +25°C.
- *6 : NO LOAD ~ FULL LOAD WITH RESPECT TO 50% OF MAX. LOAD; OTHER OUTPUT : NO LOAD ; CONSTANT INPUT VOLTAGE; BASEPLATE TEMPERATURE = +25°C.
- *7 : CURRENT LIMITING WITH AUTOMATIC RECOVERY.
- *8 : CNT RESET OR MANUAL RESET.
- *9 : REFER TO APPLICATION NOTES.
- *10 : HEATSINK HAS TO BE CHOSEN ACCORDING TO APPLICATION NOTES.

OPTION TABLE :

OPTION :	ON/OFF LOGIC	OVP
STANDARD	NEGATIVE (L : ON ; H : OFF)	SHUT-DOWN
/ P	POSITIVE (H : ON ; L : OFF)	SHUT-DOWN
/ V	NEGATIVE (L : ON ; H : OFF)	AUTO-RESTART
/ PV	POSITIVE (H : ON ; L : OFF)	AUTO-RESTART

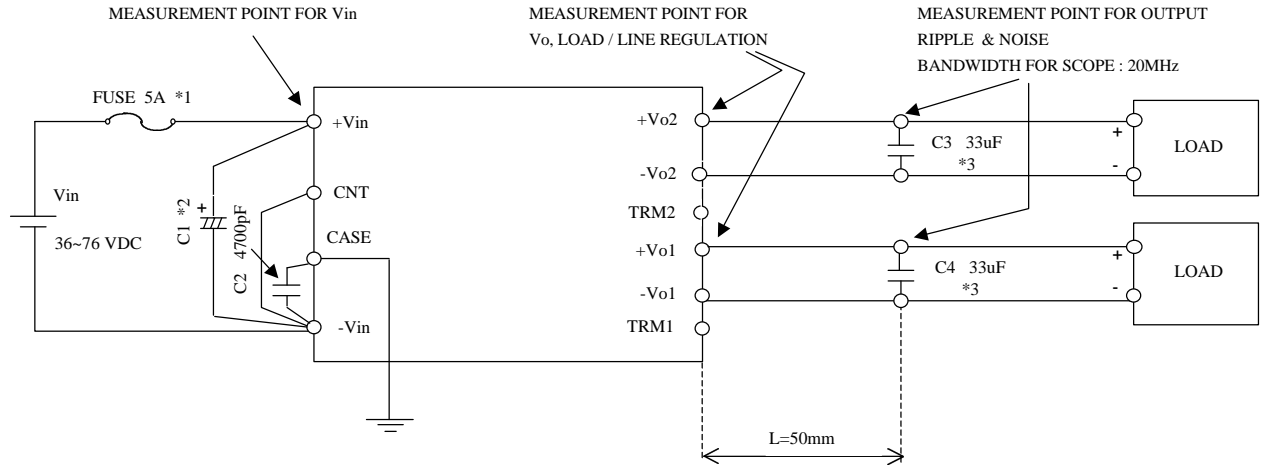
EXAMPLE :
PAH75D48-3325/PV ; REPRESENT POSITIVE LOGIC & OVP AUTO-RESTART.

PAH75D48

BASICAL CONNECTION

PA550-01-02A

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 TYPE CAPACITOR.

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

*3 : 33uF CERAMIC CAPACITOR OR EQUIVALENT SUCH AS 5 PARALLEL 6.8uF CERAMIC TYPE CAPACITORS.

Output Derating Curve :-

