PH75A280

C272-01-01D

SPECIFICATIONS

	ITEMS / MODEL			PH75A280 -3.3	PH75A280 -5	PH75A280 -12	PH75A280 -15	PH75A280 -24	PH75A280 -28	PH75A280 -48
1	Nominal Output Voltage		V	3.3	5	12	15	24	28	48
2	Maximum Output Current		A	15	15	6.3	5	3.2	2.7	1.6
3	Maximum Output Power		W	49.5	75	75.6	75	76.8	75.6	76.8
4	Efficiency (Typ.)	(*1)	%	83	86	89	90	90	90	90
5	Input Voltage Range		VDC	200 - 425						
6	Input Current	(*1)	A	0.22	0.32	0.31	0.30	0.31	0.30	0.31
7	Output Voltage Accuracy	(*1)	%	-/+ 2						
8	Output Voltage Range	(*8)	%	-10 / +20	-20 / +20	-20 / +10				
9	Maximum Ripple & Noise	(*8)	mV	100	100	150	150	240	280	400
10	Maximum Line Regulation	(*2)	mV	10	10	24	30	48	56	96
11	Maximum Load Regulation	(*3)	mV	10	10	24	30	48	56	96
12	Over Current Protection	(*4)	%	102 - 150						
13	Over Voltage Protection	(*5)(*7)	%	130 - 200	125 - 150	115 - 145				
14	Remote Sensing	(*7)	-	Possible						
15	Remote ON/OFF Control	(*7)	-	Possible (SHORT : ON OPEN : OFF)						
16	Parallel Operation		-	-						
17	Series Operation	(*7)	-	Possible						
18	Operating Temperature	(*6)	-	-40°C - +100°C (Baseplate), -40°C - +85°C(Ambient)						
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		-	Conduction Cooled						
23	Temperature Coefficient		-	0.02%/℃						
24	Withstand Voltage	(*9)	-	Input-Baseplate : 2.5kVAC for 1min (20mA), Input-Output: 3.0kVAC for 1min (20mA). Output-Baseplate for 1min (20mA) : 500VAC						
25	Isolation Resistance		-	More than 100MΩ at 25℃ and 70%RH Output-Baseplate…500VDC						
26	Vibration		-	At No Operating, 10-55Hz (Sweep for 1min.) Amplitude 0.825mm Constant (Maximum 49.0m/s^2) X,Y,Z 1 hour each						
27	Shock		-	196.1m/s^2						
28	Safety		-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020)						
29	Weight (Typ.)		g	55						
30	Size (W x H x D)		mm	37.2 x 12.7 x 58.3 (Refer to Outline Drawing)						

*Read instruction manual carefully, before using the power supply unit.

=NOTES=

*1. At 280VDC and maximum output current.
(Baseplate Temperature = +25°C)

*2. 200 - 425VDC, Constant load.

*3. No Load - Full Load, Constant input voltage.

*4. Constant current limiting.

*5. OVP reset : Line off or Control off.

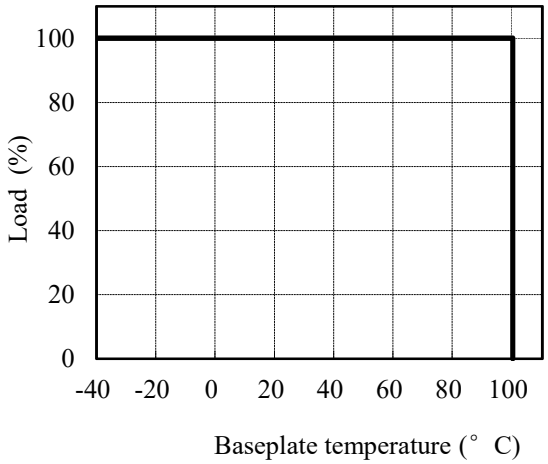
*6. Rating - Refer to Derating Curve on the right.
- Load(%) is percent of maximum output current.
- Refer to Instruction Manual.

*7. Refer to Instruction Manual.

*8. External components are necessary for operation.
(Refer to Basic Connection and Instruction Manual.)

*9. This specification applies to power supply module as stand-alone.

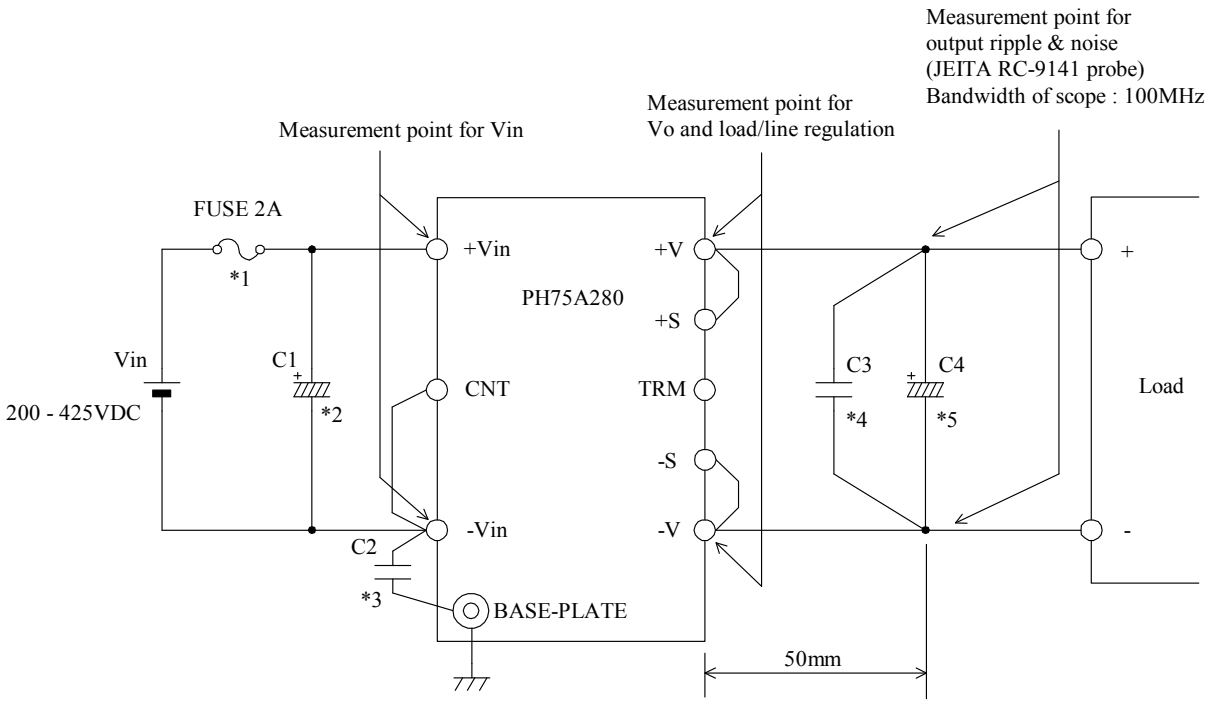
Derating Curve



PH75A280

C272-01-02B

BASIC CONNECTION



*Read instruction manual carefully, before using the power supply unit.

==NOTES==

*1. Use an external fuse (fast blow type or normal blow type) for each unit.

*2. Put input capacitor.
C1 : Electrolytic capacitor More than 450VDC, 22µF
1) Use low impedance electrolytic capacitor with excellent temperature characteristics.
2) Use two capacitors(450V, 22µF) in parallel when ambient temperature is -20°C or lower to reduce ESR.
3) If the impedance of input line is high, C1 capacitance must be more than above.

*3. Put FG capacitor.
C2 : Ceramic capacitor more than 2.5kVAC, 470pF

*4. Put output capacitor.
C3 : Ceramic capacitor 100VDC, 2.2µF

*5. Put output capacitor.
C4 : Electrolytic capacitor

C4	3.3V,5V: 10VDC , 2200µF
	12V,15V: 25VDC , 560µF
	24V,28V: 50VDC , 220µF
	48V : 50VDC , 220µF x 2 Series

1) Use low impedance electrolytic capacitor with excellent temperature characteristics.
2) Use more than three recommended capacitor above in parallel when ambient temperature is -20°C or lower to reduce ESR.