

PAQ50S48-*

SPECIFICATIONS

C165-01-01B

(This specifications sheet also apply to option model /V, /P, /PV)

ITEMS		MODEL	PAQ50S48-1R2	PAQ50S48-1R8	PAQ50S48-2R5	PAQ50S48-3R3	PAQ50S48-5
1	Nominal Output Voltage	V	1.2	1.8	2.5	3.3	5
2	Maximum Output Current	A	12	12	12	12	10
3	Maximum Output Power	W	14.4	21.6	30	39.6	50
4	Efficiency (Typ.) (*1)	%	78	83	85	88	90
5	Input Voltage Range	-	36 - 76VDC				
6	Input Current (Typ.) (*1)	A	0.39	0.56	0.75	0.96	1.18
7	Output Voltage Accuracy (*1)	%	±1				
8	Output Voltage Range (*8)	-	-20%, +10%			±15%	
9	Maximum Ripple & Noise (*8)	mV	100	100	100	100	100
10	Maximum Line Regulation (*2)	mV	10	10	10	10	10
11	Maximum Load Regulation (*3)	mV	10	10	10	10	10
12	Over Current Protection (*4)	-	105% - 150% (Option availavle : Refer to option table)				
13	Over Voltage Protection (*5)	-	120% - 140% (Option availavle : Refer to option table)				
14	Remote Sensing (*6)	-	Possible				
15	Remote ON/OFF Control	-	Possible (Option availavle : Refer to option table)				
16	Parallel Operation (*6)	-	—				
17	Series Operation (*6)	-	Possible				
18	Operating Temperature (*7)	-	Ta= -40°C - +85°C				
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 (*7)	-	Convection Cooled / Forced air cooled				
23	Temperature Coefficient (%)	-	Less than 0.02%/°C				
24	Withstand Voltage	-	Input-Output : 1.5kVDC for 1min				
25	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Input-Output...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	Weight (Typ.)	g	50				
29	Size (W×H×D)	mm	36.8×8.5×57.9 (Refer to Outline Drawing)				

=NOTES=

*1. At 48VDC, maximum output current, Air Velocity = 2m/s and Ta = +25°C.

*2. 36 - 76VDC, constant load.

*3. No load - Full load, constant input voltage.

*4. Constant current limiting.

(The unit automatically shutdown when left in OCP condition,
with the output voltage less than the LVP level.)

Auto restart option available.

*5. Inverter shutdown method, manual reset. Auto restart option available.

*6. Refer to Instruction manual (C163-04-01_ or C163-04-11_).

*7. Refer to derating curve (C165-01-03_) and Instruction manual.

*8 External components are needed for operation.

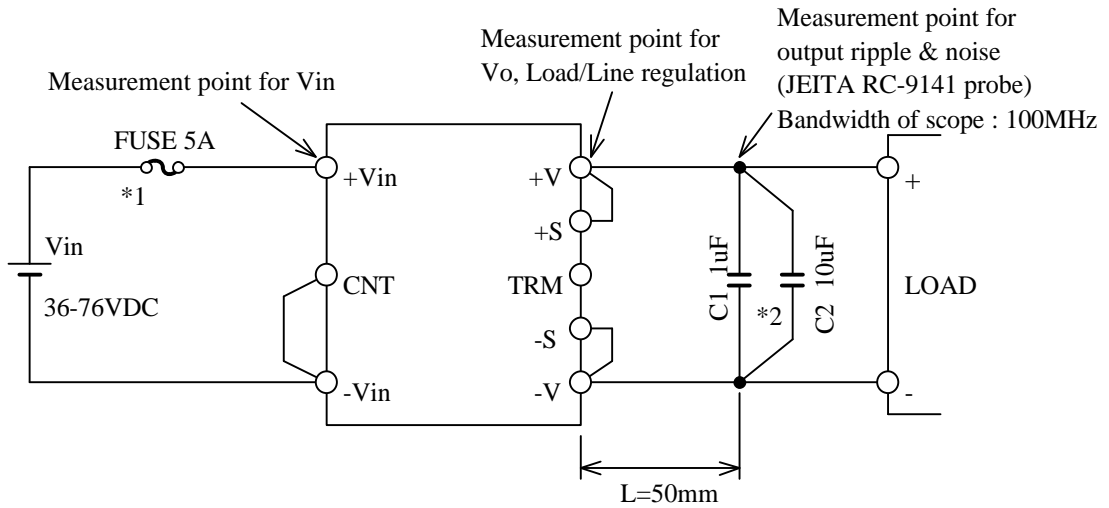
(Refer to basic connection (C165-01-02_) and Instruction manual (C163-04-01_ or C163-04-11_))

PAQ50S48-*

C165-01-02B

(This specifications sheet also apply to option model /V, /P, /PV)

1. BASIC CONNECTION



==NOTES==

- *1. Use an external fuse (fast blow type) for each unit.
- *2. Put output capacitors.
 C1: 1µF ceramic capacitor.
 C2: 10µF tantalum capacitor or electrolytic capacitor.
- *3. Refer to instruction manual for further details.

2. OPTION TABLE

Option	OVP, OCP	Remote ON/OFF control
Standard	Shut down (ON/OFF control reset or manual reset)	Negative (Short : ON, Open : OFF)
/V	Auto restart	
/P	Shut down (ON/OFF control reset or manual reset)	Positive (Short : OFF, Open : ON)
/PV	Auto restart	

PAQ50S48-*

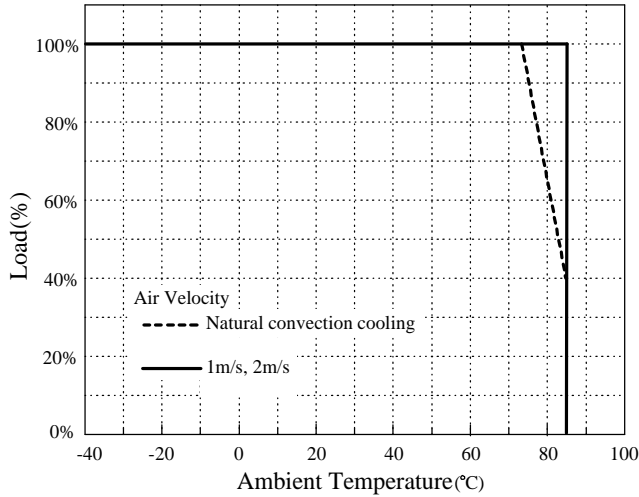
C165-01-03C

(This specifications sheet also apply to option model /V, /P, /PV)

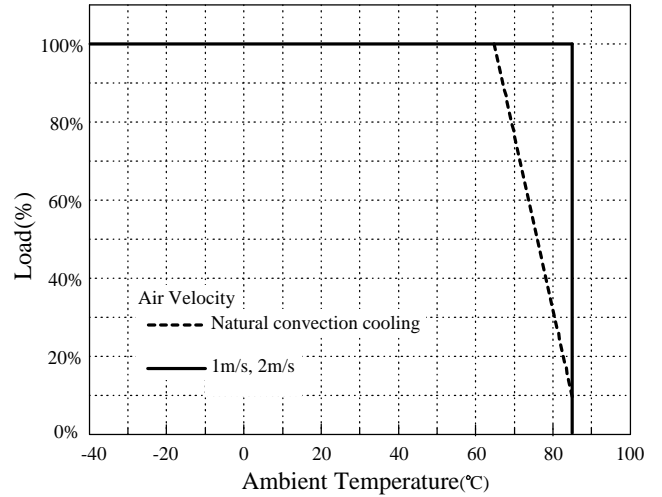
3. DERATING CURVE FOR STANDARD VERTICAL MOUNTING

Vin=48Vdc

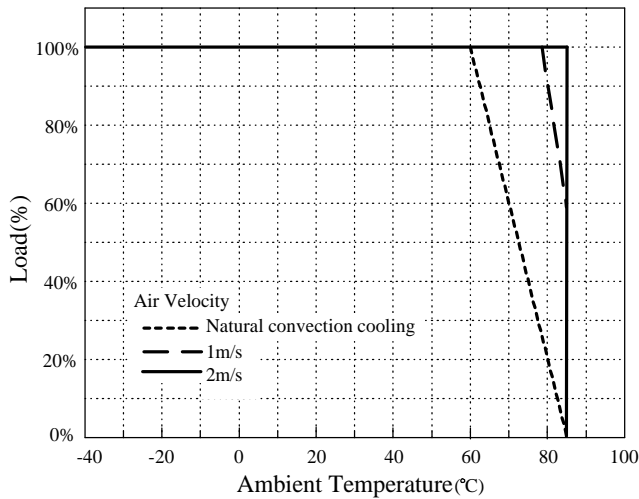
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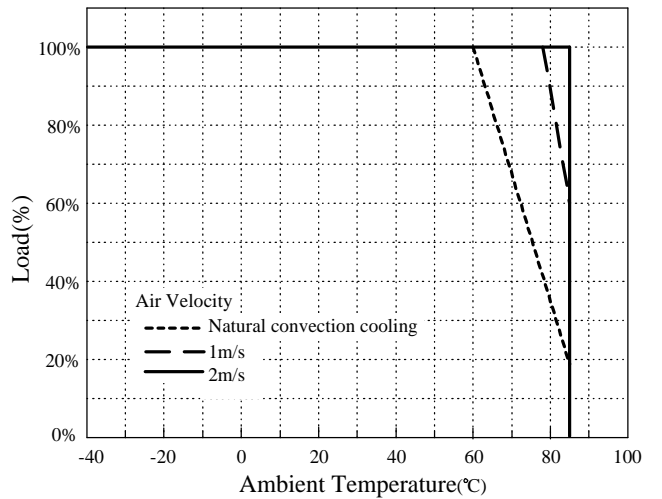
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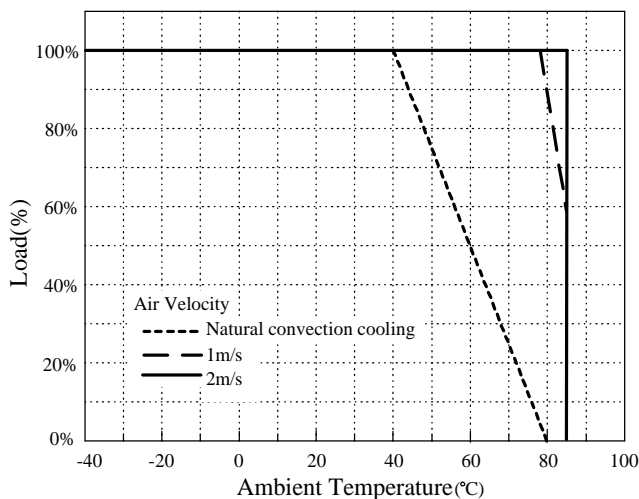
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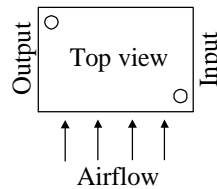
PAQ50S48-3R3



PAQ50S48-5



AIRFLOW DIRECTION FOR STANDARD VERTICAL MOUNTING



==NOTES==

*For other mounting methods, airflow directions and conditions, refer to Instruction manual (C163-04-01_ or C163-04-11_).