

PH100S48 Specifications

NEMIC-LAMBDA

* : For delivery, contact to our sales office.

C096-01-01B

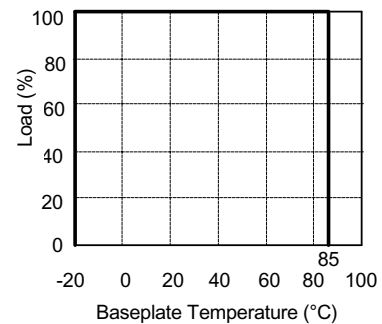
MODEL		PH100S 48-3.3	PH100S 48-5	PH100S 48-12	PH100S 48-15	PH100S 48-24	PH100S 48-28	
ITEMS								
1	Nominal Output Voltage	V	3.3	5	12	15	24	28
2	Maximum Output Current	A	20	20	8.4	6.7	4.2	3.6
3	Nominal Output Power	W	66	100	100.8	100.5	100.8	100.8
4	Efficiency (Typ) (*1)	%	74	81	83	84	85	85
5	Input Voltage Range	-	36 ~ 76VDC					
6	Input Current (Typ) (*1)	A	1.86	2.57	2.53	2.49	2.47	2.47
7	Output Voltage Accuracy (*1)	%	± 1%					
8	Output Voltage Range (*8)	%	± 10% (At 48VDC input)					
9	Maximum Ripple & Noise (*9)	mV	100	100	150	150	240	280
10	Maximum Line Regulation (*2)	mV	20	20	48	60	96	112
11	Maximum Load Regulation (*3)	mV	40	40	96	120	192	224
12	Over Current Protection (*4)	-	105% ~ 150%					
13	Over Voltage Protection (*5)	-	165~240%	125% ~ 145%				
14	Remote Sensing	-	Possible					
15	Remote ON/OFF Control (*8)	-	Possible (Short : ON, Open : OFF)					
16	Parallel Operation	-	-----					
17	Series Operation (*8)	-	Possible					
18	Operating Temperature (*6)	-	-20 ~ +85°C (Baseplate) Ambient Temperature min = -20°C					
19	Operating Humidity	-	30 ~ 95%RH (No dewdrop)					
20	Storage Temperature	-	-40 ~ +85°C					
21	Storage Humidity	-	10 ~ 95%RH (No dewdrop)					
22	Cooling (*7)	-	Conduction Cooled					
23	Temperature Coefficient	-	0.02% / °C					
24	Withstand Voltage	-	Input - Baseplate : 2.5kVAC (20mA) for 1 minute. Input - Output : 3.0kVAC (20mA) for 1 minute. Output - Baseplate : 500VDC for 1 minute.					
25	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output - Baseplate : 500VDC					
26	Vibration	-	At no operating, 10 ~ 55Hz amplitude (sweep for 1minute) 0.825mm constant (Maximum 5G) X,Y,Z 1hour each.					
27	Shock	-	Less than 20G (In Package)					
28	Safety Standard	UL1950	- Approved by UL (excluding PH100S48-3.3)					
		CSA234	- Approved by CSA (excluding PH100S48-3.3)					
		EN60950	- Approved by BSI (excluding PH100S48-3.3)					
29	Weight (Typ)	g	150g					
30	Size (WxHxD)	mm	62 x 12.7 x 86 (Refer to Outline Drawing)					

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

=NOTES=

- *1. At 48VDC and maximum output current.
- *2. 36 ~ 76VDC input, constant load.
- *3. No load ~ Full load, constant input voltage.
- *4. Constant current limiting with automatic recovery.
- *5. Inverter shut-down method, manual reset.
- *6. Ratings - Refer to Derating Curve on the right.
- Load (%) is percent of maximum output current.
- *7. Heatsink has to be chosen according to instruction manual.
- *8. Refer to instruction manual.
- *9. External components are needed for operation.
(Refer to basic connection and instruction manual)

Derating Curve

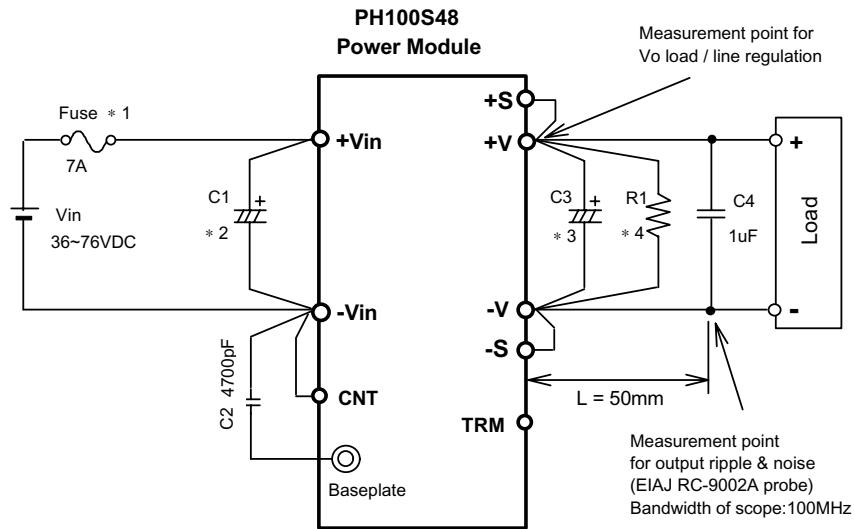


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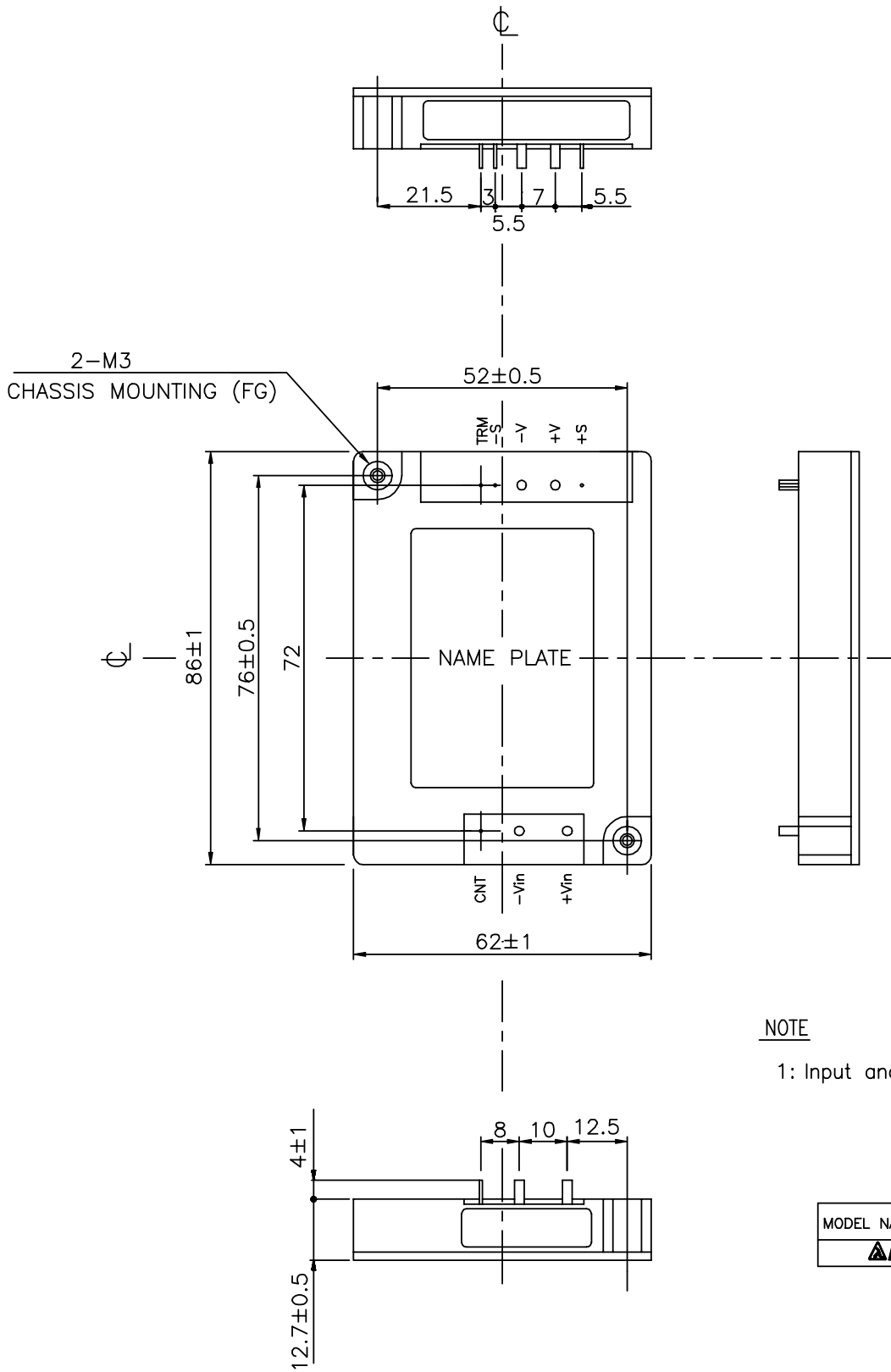
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1. Basic Connection



= Note =

- *1. Use an external fuse of fast blow type for each unit.
- *2. When the input line impedance is high, insert input electrical capacitor.
C1 : more than 220uF. (Refer to instruction manual)
- *3. Put an output capacitor C3.
3.3V, 5V : more than 1000uF
12V, 15V : more than 470uF
24V, 28V : more than 220uF
- *4. Set the minimum load current (more than 3% of rated current) in order to prevent recurrent output voltage dropout (due to continuous skip cycle) under dynamic load conditions.
- *5. Refer to instruction manual for further details.



NOTE

1: Input and output terminal... (4- ϕ 2
4- ϕ 0.6

(unit : mm)

MODEL NAME	PH100S48-*
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C096-02-01-A	