PH150S280 Specifications

NEMIC-LAMBDA

* : For delivery, contact to our sales office.

C095-01-01B * * *

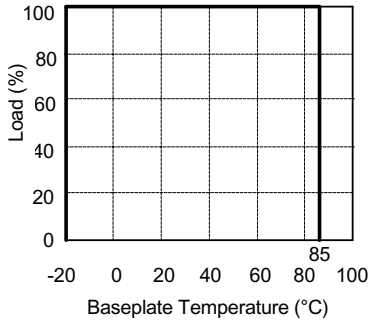
	ITEMS / MODEL			PH150S 280-3.3	PH150S 280-5	PH150S 280-12	PH150S 280-15	PH150S 280-24	PH150S 280-28
1	Nominal Output Voltage		V	3.3	5	12	15	24	28
2	Maximum Output Current		A	30	30	12.5	10.0	6.3	5.4
3	Nominal Output Power		W	99	150	150	150	151.2	151.2
4	Efficiency (Typ)	(∗1)	%	72	82	85	85	88	88
5	Input Voltage Range		-	200 ~ 400VDC					
6	Input Current (Typ)	280VDC input	A	0.47	0.65	0.63	0.63	0.61	0.61
	(at full load)	360VDC input	A	0.37	0.51	0.49	0.49	0.48	0.48
7	Output Voltage Accuracy	(∗1)	%	± 1%					
8	Output Voltage Range	(∗8)	%	± 10% (At 280VDC 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					
19	Operating Temperature	(∗6)	-	-20 ~ +85°C (Baseplate) Ambient Temperature min = -20°C					
20	Operating Humidity		-	30 ~ 95%RH (No dewdrop)					
21	Storage Temperature		-	-40 ~ +85°C					
22	Storage Humidity		-	10 ~ 95%RH (No dewdrop)					
23	Cooling	(∗7)	-	Conduction Cooled					
24	Temperature Coefficient		-	0.02% / °C					
25	Withstand Voltage		-	Input - Baseplate : 2.5kVAC (20mA) for 1 minute. Input - Output : 3.0kVAC (20mA) for 1 minute. Output - Baseplate : 500VDC for 1 minute.					
26	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - Baseplate : 500VDC					
27	Vibration		-	At no operating, 10 ~ 55Hz amplitude (sweep for 1minute) 0.825mm constant (Maximum 5G) X,Y,Z 1hour each.					
28	Shock		-	Less than 20G (In Package)					
29	Safety Standard	UL1950	-	Approved by UL (excluding PH150S280-3.3)					
		CSA234	-	Approved by CSA (excluding PH150S280-3.3)					
		EN60950	-	Approved by BSI (excluding PH150S280-3.3)					
30	Weight (Typ)		g	150g					
31	Size (WxHxD)		mm	72 x 12.7 x 86 (Refer to Outline Drawing)					

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

=NOTES=

∗1. At 280VDC and maximum output current.
∗2. 200 ~ 400VDC 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

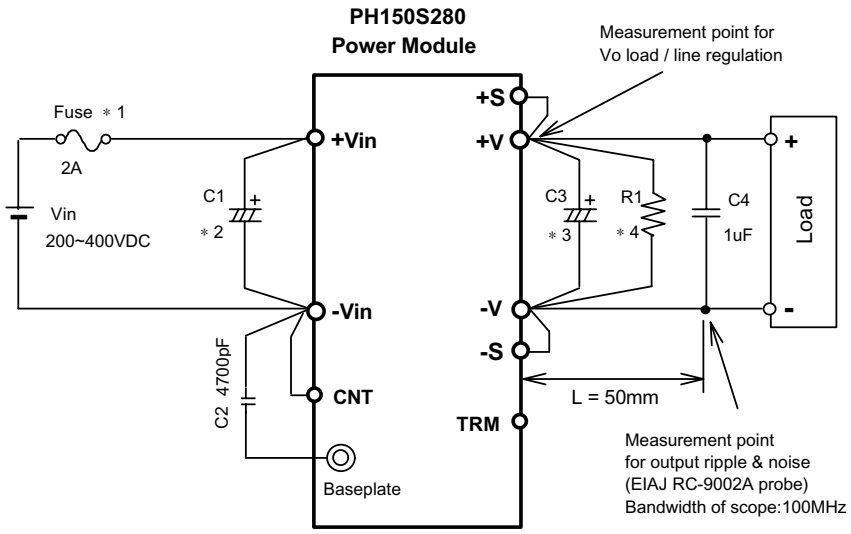


PH150S280 Specifications

C095-01-02B

NEMIC-LAMBDA

1. Basical Connection



= Note =

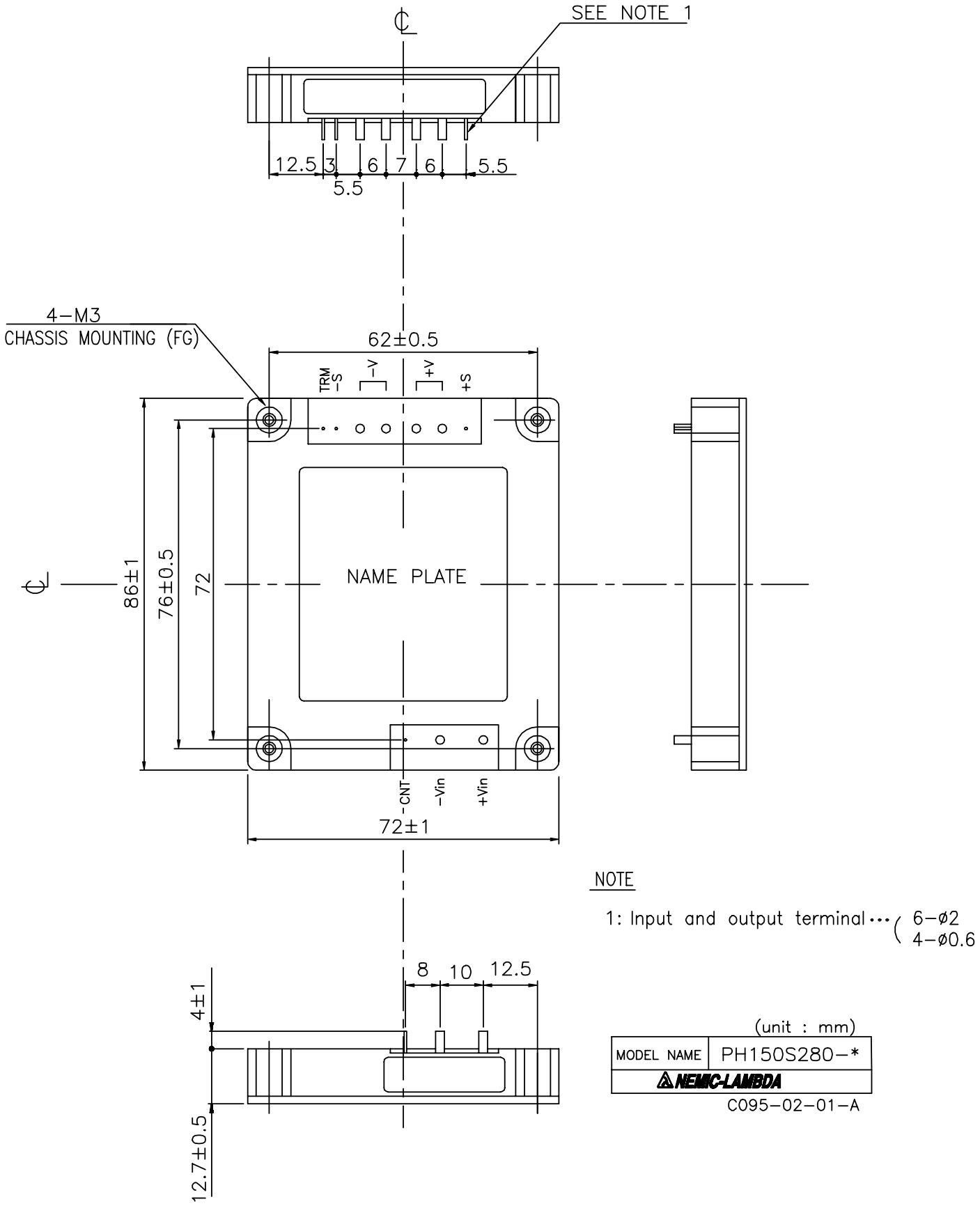
＊1. Use an external fuse of fast blow type for each unit.

＊2. When the input line impedance is high, insert input electrical capacitor.
C1 : more than 22uF. (Refer to instruction manual)

＊3. Put an output capacitor C3.
3.3V, 5V : more than 1000uF
12V, 15V : more than 470uF
24V : more than 220uF
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 ··· (6−ø2
4−ø0.6

(unit : mm)

MODEL NAME	PH150S280−*
NEMIC-LAMBDA	

C095−02−01−A