

PH100F24

SPECIFICATION

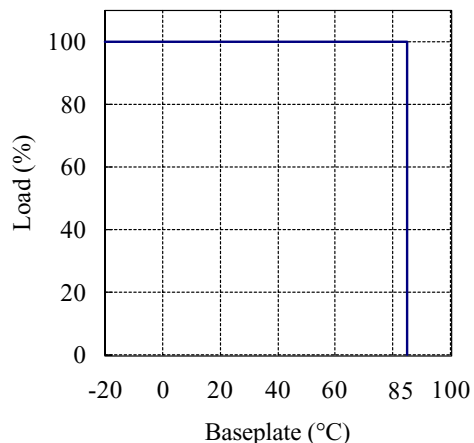
C101-01-01A

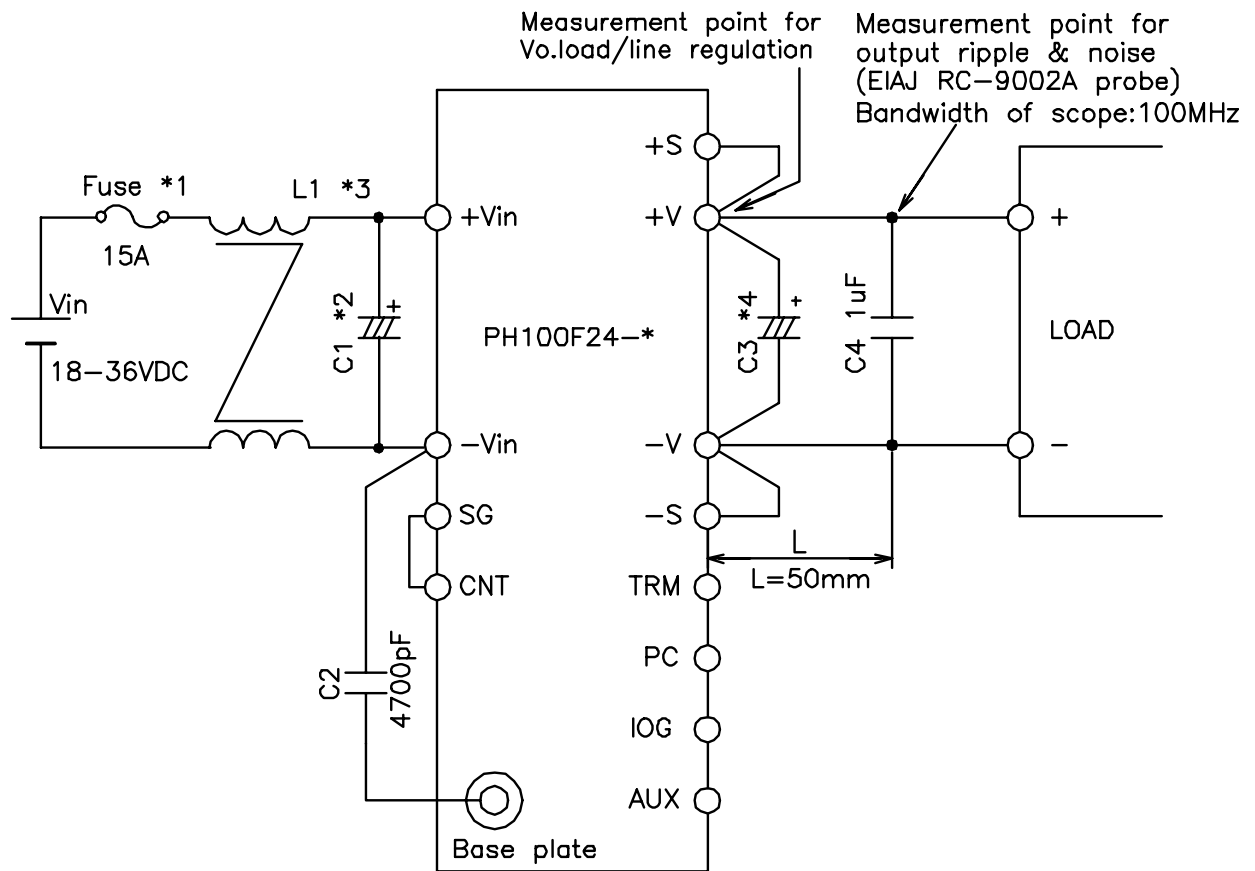
| MODEL | | PH100F | PH100F | PH100F | PH100F | PH100F | PH100F | PH100F | PH100F |
|-------|------------------------------|--------|---|--------|-------------|--------|--------|--------|--------|
| ITEMS | | 24-2 | 24-3 | 24-5 | 24-12 | 24-15 | 24-24 | 24-48 | |
| 1 | Nominal Output Voltage | V | 2 | 3 | 5 | 12 | 15 | 24 | 28 |
| 2 | Maximum Output Current | A | 20 | 20 | 20 | 8.4 | 6.7 | 4.2 | 3.6 |
| 3 | Nominal Output Power | W | 40 | 60 | 100 | 100.8 | 100.5 | 100.8 | 100.8 |
| 4 | Efficiency (Typ.) (*1) | % | 66 | 70 | 80 | 81 | 82 | 83 | 83 |
| 5 | Input Voltage Range | - | 18 ~ 36VDC | | | | | | |
| 6 | Input Current (Typ.) (*1) | A | 2.53 | 3.57 | 5.21 | 5.19 | 5.11 | 5.06 | 5.06 |
| 7 | Output Voltage Accuracy (*1) | - | ±1% | | | | | | |
| 8 | Output Voltage Range (*10) | - | ±20% | | +20%, -60% | | | | |
| 9 | Maximum Ripple & Noise (*9) | mV | 100 | 100 | 100 | 150 | 150 | 240 | 280 |
| 10 | Maximum Line Regulation (*2) | mV | 20 | 20 | 20 | 48 | 60 | 96 | 112 |
| 11 | Maximum Load Regulation (*3) | mV | 40 | 40 | 40 | 96 | 120 | 192 | 224 |
| 12 | Over Current Protection (*4) | A | 105% ~ 140% | | | | | | |
| 13 | Over Voltage Protection (*5) | V | 165% ~ 240% | | 125% ~ 145% | | | | |
| 14 | Remote Sensing (*8) | - | Possible | | | | | | |
| 15 | Remote ON/OFF Control (*8) | - | Possible (SHORT:ON OPEN:OFF) | | | | | | |
| 16 | Parallel Operation (*8) | - | Possible | | | | | | |
| 17 | Series Operation (*8) | - | Possible | | | | | | |
| 18 | I.O.G. Signal (*8) | - | Possible (Open Collector Output) | | | | | | |
| 19 | Operating Temperature (*6) | - | - 20°C ~ + 85°C (Base plate) Ambient Temperature MIN = - 20°C. | | | | | | |
| 20 | Operating Humidity | - | 30 - 95%RH (No Dewdrop) | | | | | | |
| 21 | Storage Temperature | - | - 40°C ~ + 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 : 2kVAC, Input-Output : 2kVAC(20mA) for 1min Output-Baseplate : 500VDC(100mA) for 1min | | | | | | |
| 26 | Isolation Resistance | - | More than 100Mohm at 25°C and 70%RH Output-Baseplate...500VDC | | | | | | |
| 27 | Vibration | - | At No Operating, 10-55Hz (Sweep for 1min) Amplitude 0.825mm Constant (Maximum 49.0m/s ²) X,Y,Z 1h each | | | | | | |
| 28 | Shock | - | 196.1m/s ² (In package) | | | | | | |
| 29 | Weight (Typ.) | - | 180g | | | | | | |
| 30 | Size (W x H x D) | mm | 83 x 12.7 x 86 (Refer to Outline Drawing) | | | | | | |

=NOTES=

- *1. At 24VDC and Maximum Output Current.
- *2. 18 ~ 36VDC, Constant Load.
- *3. No load ~ Full load, Constant input voltage.
- *4. Constant current limiting with automatic recovery.
- *5. Inverter shutdown 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 Basical Connection and Instruction Manual)
- *10. At 24VDC Input.(Refer to Instruction Manual.)

DERATING CURVE





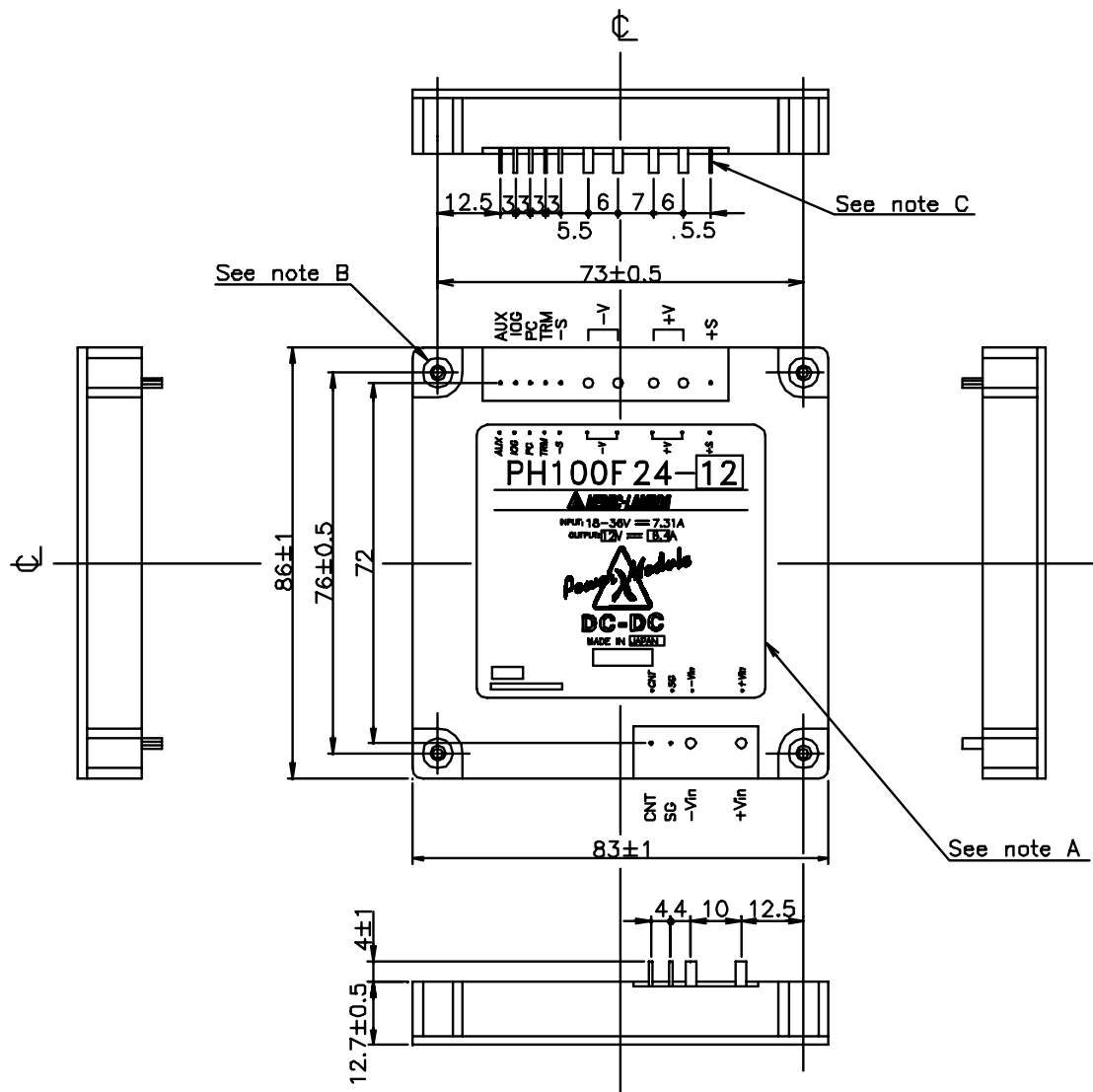
==NOTE==

- *1. Use an external fuse of fast blow type, for each unit.
- *2. When the input line impedance is high, insert input capacitor, $C1$, more than 470uF. (Refer to instruction manual)
- *3 Put an input common mode choke coil, $L1$, more than 1mH.
- *4. Put an output capacitor. (2,3V: more than 2,200uF, 5V: more than 1,000uF, 12V,15V: more than 470uF, 24V,28V: more than 220uF)
- *5. Refer to instruction manual for further details.

(unit : mm)

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| MODEL NAME | PH100F24 |
| | |

C101-01-02



Notes

A: Model name, input voltage range, nominal output voltage, maximum output current and country of manufacture are shown here in accordance with the specifications.

B: M3 tapped holes 4 for customer chassis mounting (FG). Screws must not protrude into power module by more than 12.7mm. (Back side for heat sink.)

C: Input and output terminal... (6- ϕ 2
8- ϕ 0.6

(unit : mm)

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| MODEL NAME | PH100F24-* |
| NEMIC-LAMBDA | |

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