

SPECIFICATIONS

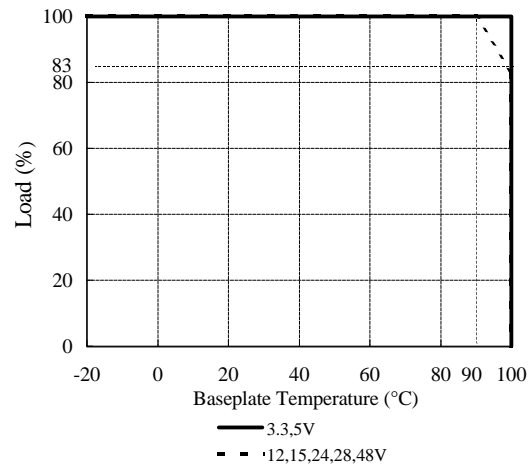
C115-01-01C

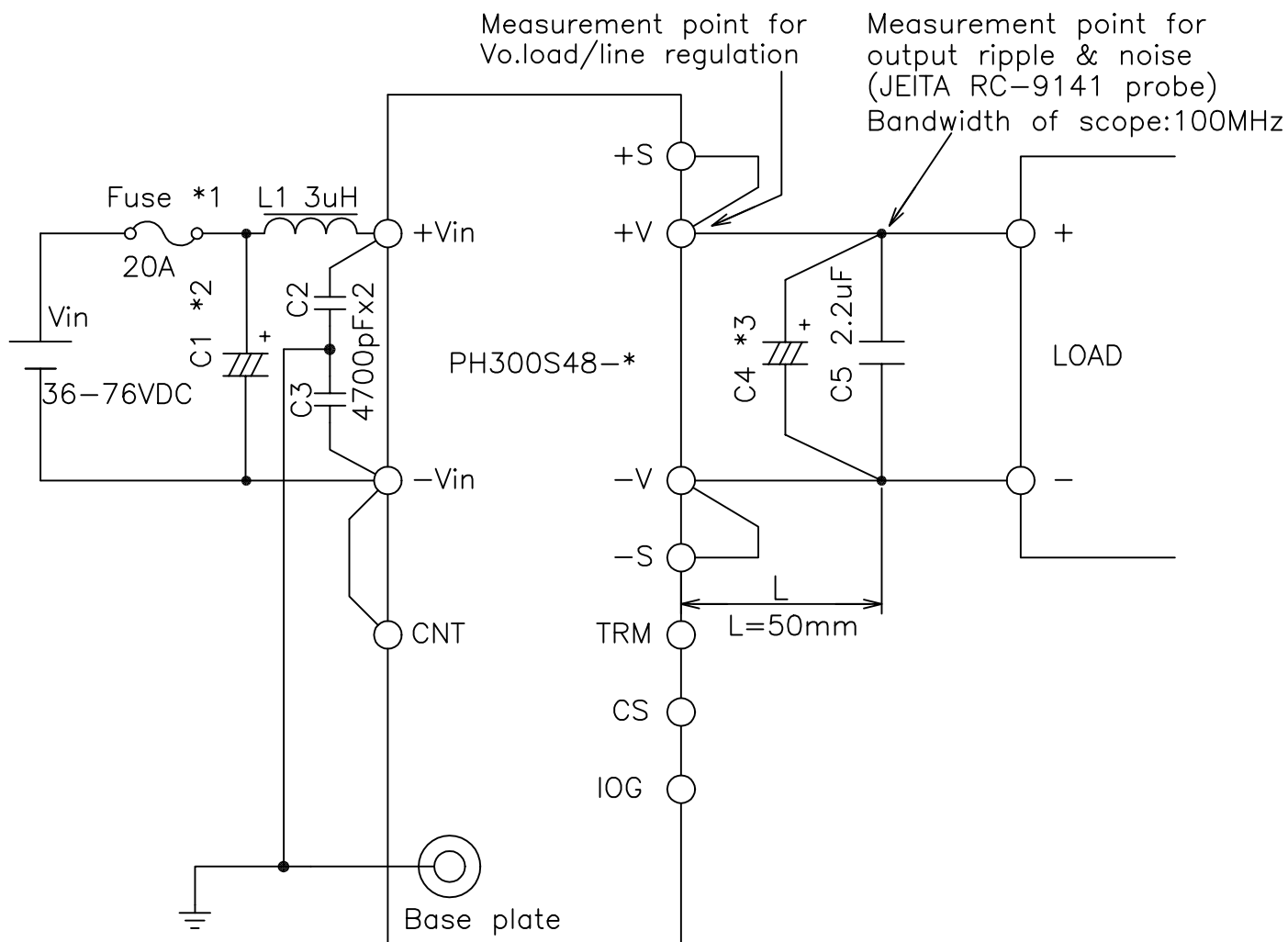
| ITEMS | | MODEL | PH300S | PH300S | PH300S | PH300S | PH300S | PH300S | PH300S | | |
|-------|-------------------------|-------|---|--|-----------|-------------------------------|--------|--------|---------|------|-----|
| | | | 48-3.3 | 48-5 | 48-12 | 48-15 | 48-24 | 48-28 | 48-48 | | |
| 1 | Nominal Output Voltage | V | 3.3 | 5 | 12 | 15 | 24 | 28 | 48 | | |
| 2 | Maximum Output Current | A | 50 | 50 | 25 | 20 | 12.5 | 10.8 | 6.3 | | |
| 3 | Nominal Output Power | W | 165 | 250 | 300 | 300 | 300 | 302.4 | 302.4 | | |
| 4 | Efficiency (Typ.) | (*)1 | % | 80 | 84 | 88 | 88 | 88 | 88 | | |
| 5 | Input Voltage Range | - | 36 - 76VDC | | | | | | | | |
| 6 | Input Current (Typ.) | (*)1 | A | 4.30 | 6.20 | 7.10 | 7.10 | 7.10 | 7.16 | 7.16 | |
| 7 | Output Voltage Accuracy | (*)1 | % | ±1 | | | | | | | |
| 8 | Output Voltage Range | (*)10 | % | +20,-10 | | ±10 | | | +20,-10 | | |
| 9 | Maximum Ripple & Noise | (*9) | 0 ~ +100°C | mV | 100 | 100 | 150 | 150 | 240 | 280 | 480 |
| | | | -20 ~ 0°C | mV | 150 | 150 | 225 | 225 | 360 | 420 | 720 |
| 10 | Maximum Line Regulation | (*)2 | mV | 20 | 20 | 48 | 60 | 96 | 112 | 192 | |
| 11 | Maximum Load Regulation | (*)3 | mV | 40 | 40 | 96 | 120 | 192 | 224 | 384 | |
| 12 | Over Current Protection | (*)4 | % | 105 - 150 | | | | | | | |
| 13 | Over Voltage Protection | (*)5 | % | 140-170 | 125 - 145 | | | | | | |
| 14 | Remote Sensing | (*)8 | - | Possible | | | | | | | |
| 15 | Remote ON/OFF Control | (*)8 | - | Possible (SHORT:ON OPEN:OFF) | | | | | | | |
| 16 | Parallel Operation | (*)11 | - | Applicable with CS signal | | | | | | | |
| 17 | Series Operation | (*)8 | - | Possible | | | | | | | |
| 18 | I.O.G. Signal | (*)8 | - | Built-in (Open Collector Output) | | | | | | | |
| 19 | Operating Temperature | (*6) | - | -20°C - +100°C(Baseplate), Ambient Temperature min -20°C | | | | | | | |
| | | | - | -20 ~+100°C:100% | | -20 ~+90°C :100% , +100°C:83% | | | | | |
| 20 | Operating Humidity | - | 30 - 95%RH (No Dewdrop) | | | | | | | | |
| 21 | Storage Temperature | - | -40°C- + 100°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 : 1.5kVAC, Input-Output : 1.5kVAC(20mA) for 1min | | | | | | | | |
| | | - | Output-Baseplate : 500VDC for 1min | | | | | | | | |
| 26 | Isolation Resistance | - | More than 100MΩ 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 1 h each | | | | | | | | |
| 28 | Shock | - | 196.1m/s ² | | | | | | | | |
| 29 | Weight (Typ.) | | 200g | | | | | | | | |
| 30 | Size (WXHxD) | mm | 83 X 12.7 X 86 (Refer to Outline Drawing) | | | | | | | | |

=NOTES=

- *1. At 48VDC and Maximum Output Current.
(Baseplate Temperature =+25°C)
- *2. 36 - 76VDC, Constant Load.
- *3. No load - Full load, Constant input voltage.
- *4. Constant current limiting with automatic recovery.
- *5. Inverter shutdown method, Manual Reset with CNT signal.
- *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)
- *10. At 48VDC Input.(Refer to Instruction Manual.)
- *11. External circuit is Needed for operation.
(Refer to Instruction manual)

DERATING CURVE





==NOTE==

- *1. Use an external fuse of fast blow type, for each unit.
- *2. Put an input capacitor, C1, more than 470uF. (Refer to instruction manual)
- *3. Put an output capacitor. (3.3V: more than 4,700uF, 5V: more than 3,900uF, 12V: more than 1,000uF, 15V: more than 1,000uF, 24V: more than 560uF, 28V: more than 470uF, 48V: more than 220uF)
- *4. Refer to instruction manual for further details.

(unit : mm)

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| MODEL NAME | PH300S48 |
| DENSEI-LAMBDA | |

C115-01-02B