

# Технические характеристики на источники питания AC/DC серии CPFE1000FI

**По вопросам продаж и поддержки обращайтесь:**

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## 720 to 1000W Conduction Cooled Power Supplies

| Features                             | Benefits                                     |
|--------------------------------------|----------------------------------------------|
| • Smaller size than CPFE1000F        | • Easier integration into industrial systems |
| • Base plate cooled, no fan required | • Quiet operation, long field life           |
| • Protective coating option          | • Enables use in harsh environments          |
| • I <sup>2</sup> C Interface         | • Allows remote monitoring                   |



| Specification                     |     |                                                                                                                                                                                                        |  |
|-----------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Model                             |     | CPFE1000FI                                                                                                                                                                                             |  |
| AC Input                          | VAC | 90 to 265VAC, 47-63Hz                                                                                                                                                                                  |  |
| Input Current (1)                 | A   | 13.6 / 6.6 (Model dependant)                                                                                                                                                                           |  |
| Inrush Current (115 / 230VAC)     | A   | 20 / 40 peak                                                                                                                                                                                           |  |
| Power Factor                      | -   | Meets EN61000-3-2                                                                                                                                                                                      |  |
| Efficiency (typical) (2)          | %   | 79 to 86% (Model dependant)                                                                                                                                                                            |  |
| Output Voltage Setpoint Accuracy  | -   | ±2% at 50% load                                                                                                                                                                                        |  |
| Line Regulation                   | mV  | 12V: 48mV, 28V: 56mV, 48V: 96mV                                                                                                                                                                        |  |
| Load Regulation                   | mV  | 12V: 48mV, 28V: 56mV, 48V: 96mV                                                                                                                                                                        |  |
| Ripple and Noise (20MHz BW) (3)   | -   | 1% (2% below 0°C)                                                                                                                                                                                      |  |
| Over Current Protection           | %   | 105 - 140% (Automatic recovery)                                                                                                                                                                        |  |
| Over Voltage Protection           | -   | 125 - 145% (Automatic recovery)                                                                                                                                                                        |  |
| Parallel Operation                | -   | Yes (Single wire)                                                                                                                                                                                      |  |
| Power On Signal (ENA)             | -   | Open collector (10mA sink current). Low (on) when output is present                                                                                                                                    |  |
| Auxiliary Supply                  | -   | 10 - 14V, 20mA                                                                                                                                                                                         |  |
| Remote On/Off (Opto isolated)     | -   | High = On                                                                                                                                                                                              |  |
| Temperature Coefficient           | °C  | <0.02%/°C                                                                                                                                                                                              |  |
| Overtemperature                   | °C  | Shuts down between 90 - 115°C (Auto recovery)                                                                                                                                                          |  |
| Hold Up Time (230VAC)             | ms  | 25ms                                                                                                                                                                                                   |  |
| Leakage Current (at 230VAC, 50Hz) | uA  | < 1.5mA                                                                                                                                                                                                |  |
| Remote Sense                      | -   | Yes, compensates up to 500mV cable drop                                                                                                                                                                |  |
| I <sup>2</sup> C Interface        | -   | Provides manufacturing location, date, serial number, part number, unit revision, output voltage & current read back, base plate temperature, remote on/off, IOG, DC good and over temperature warning |  |
| Operating Temperature             | °C  | -40 to +70°C ambient, (See reverse side for derating) (85°C baseplate, maximum)                                                                                                                        |  |
| Storage Temperature               | °C  | -40 to +100°C                                                                                                                                                                                          |  |
| Humidity                          | -   | Operating: 20 - 90%RH, Non operating 10 - 95%RH (Pcb assembly protective coated)                                                                                                                       |  |
| Cooling                           | -   | Conduction cooled                                                                                                                                                                                      |  |
| Withstand Voltage                 | -   | Input to Output 4242VDC, Input to Ground 2121VDC, Output to ground 500VDC                                                                                                                              |  |
| Vibration (non operating)         | -   | MIL-STD-810F, Method 514.4, Proc 1, Category 1, 9                                                                                                                                                      |  |
| Shock                             | -   | MIL-STD-810F, Method 516.5, Proc. I, IV, VI                                                                                                                                                            |  |
| Safety Agency Approvals           | -   | UL60950-1, CSA 22.2 No 60950-1, EN60950-1 (Ed 2), CE Mark                                                                                                                                              |  |
| Line Dip                          | -   | Complies with SEMI F47 (200VAC line only)                                                                                                                                                              |  |
| Conducted & Radiated EMI          | -   | Conducted: EN55022/EN55011 Class B, Radiated: Class A                                                                                                                                                  |  |
| Immunity                          | -   | IEC61000-4-2 (Contact Level 2, Air discharge Lvl 3), -3 (Lvl 3), -4 (Lvl 3), -5 (Lvl 4), -6 (Lvl 3), -8 (Lvl 4), -11 (Class 3), -12 (Lvl 3), -14 (Class 3)                                             |  |
| Weight (Typ)                      | g   | 1220g (without cover)                                                                                                                                                                                  |  |
| Size (L x W x H)                  | mm  | 254 x 112 x 44mm                                                                                                                                                                                       |  |
| Warranty                          | yrs | 2                                                                                                                                                                                                      |  |

Notes: (1) 100/200VAC. (2) 100% loading required.

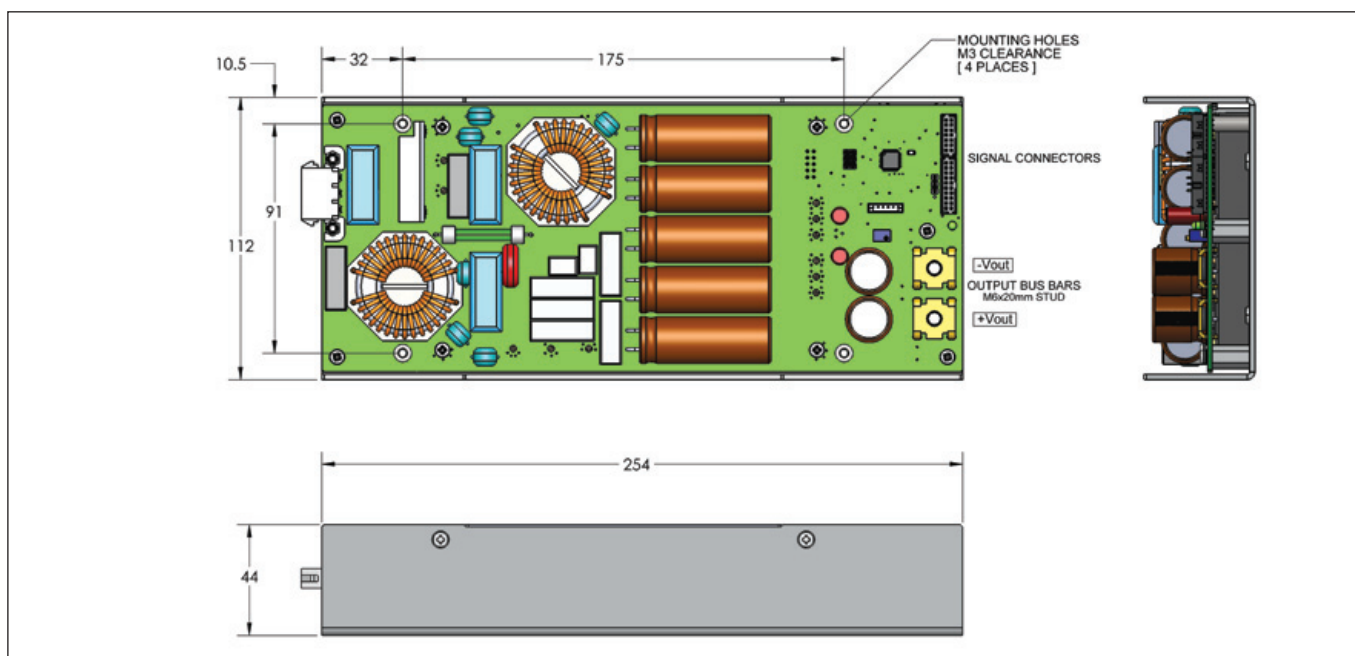
(3) Warm up period of 30 mins below -30°C for ripple. Jeita RC-9131C Method, see instruction manual for test method.

| Model Selector |                    |                  |                 |                             |
|----------------|--------------------|------------------|-----------------|-----------------------------|
| Model          | Output Voltage (V) | Adjust Range (V) | Maximum Current | Efficiency (%) (110/220VAC) |
| CPFE1000FI-12  | 12                 | 9.6 - 14.4       | 60              | 79 / 81                     |
| CPFE1000FI-28  | 28                 | 22.4 - 33.6      | 36              | 83 / 86                     |
| CPFE1000FI-48  | 48                 | 38.4 - 57.6      | 21              | 83 / 86                     |

| Derating Ambient Temperature <sup>(4)</sup> |                  |                  |      |      |      |
|---------------------------------------------|------------------|------------------|------|------|------|
| Model                                       | Input Voltage    | Output Power (W) |      |      |      |
|                                             |                  | 45°C             | 50°C | 60°C | 70°C |
| CPFE1000FI-12                               | 85VAC to 170VAC  | 720              | 720  | 720  | 720  |
|                                             | 170VAC to 265VAC | 720              | 720  | 720  | 720  |
| CPFE1000FI-28                               | 85VAC to 170VAC  | 1008             | 980  | 952  | 896  |
|                                             | 170VAC to 265VAC | 1008             | 1008 | 1008 | 1008 |
| CPFE1000FI-48                               | 85VAC to 170VAC  | 1008             | 1008 | 1008 | 1008 |
|                                             | 170VAC to 265VAC | 1008             | 1008 | 1008 | 1008 |

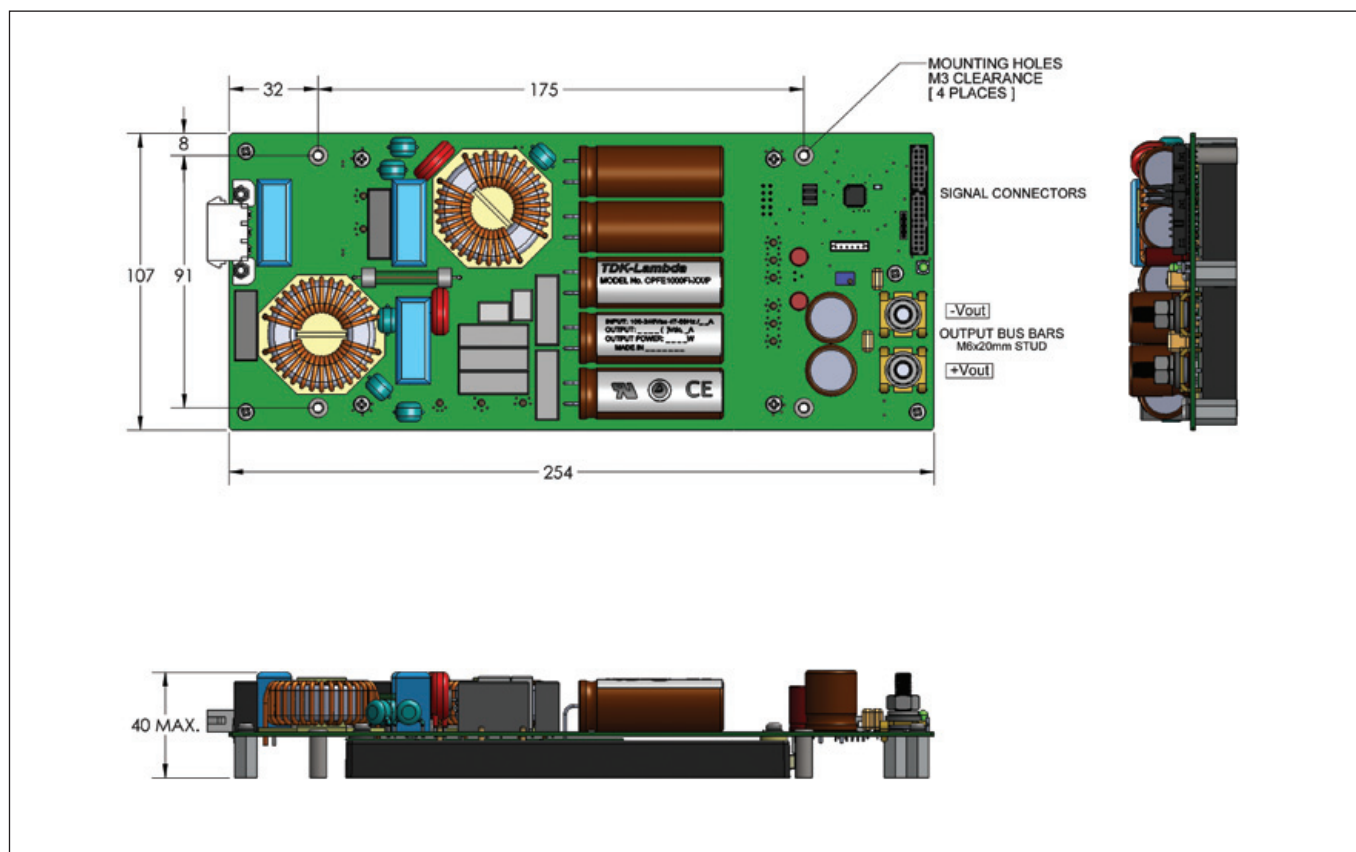
(4) See instruction manual for alternative mounting positions

## Outline Drawing CPFE1000FI Series



| Options |              |
|---------|--------------|
| Suffix  | Description  |
| /C      | Cover        |
| /P      | No U channel |
| /H      | PCB coating  |

## Outline Drawing CPFE1000FI/P Series



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