CPFE1000FI Series

720-1000W Conduction Cooled Power Supplies

Features

- ◆ Smaller size than CPFE1000F
- ◆ Base plate cooled, no fan required
- ◆ Protective coating option
- ◆ I²C Interface



Key Market Segments & Applications













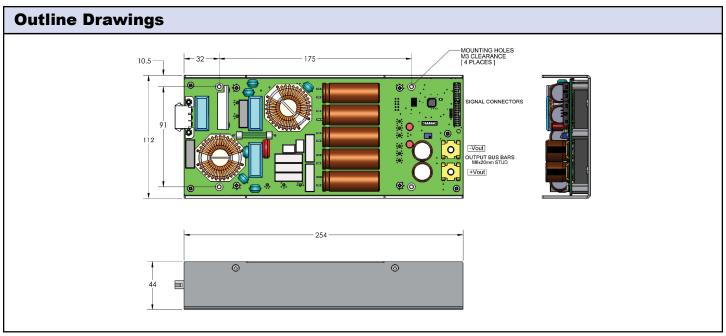
VAC	90 to 265VAC, 47-63Hz		
Α	13.6 / 6.6 (Model dependant)		
Α	20 / 40 peak		
-	0.95		
%	79 to 86% (Model dependant)		
-	±2% at 50% load		
mV	12V: 48mV, 28V: 56mV, 48V: 96mV		
mV	12V: 48mV, 28V: 56mV, 48V: 96mV		
-	1% (2% below 0°C)		
%	105 - 140% (Automatic recovery)		
-	125 - 145% (Automatic recovery)		
-	Yes (Single wire)		
-	Open collector (10mA sink current). Low (on) when output is present		
-	10 - 14V, 20mA		
-	High = On		
°C	<0.02%/°C		
°C	Shuts down between 90 - 115°C (Auto recovery)		
ms	20ms @ 25°C and warmer		
uA	< 1.5mA		
-	Yes, compensates up to 500mV cable drop		
-	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		
°C	-40 to +70°C ambient, (See reverse side for derating) (85°C baseplate, maximum)		
°C	-40 to +100°C		
-	Operating: 20 - 90%RH, Non operating 10 - 95%RH (Pcb assembly protective coated)		
-	Conduction cooled		
-	Input to Output 4242VDC, Input to Ground 2121VDC, Output to ground 500VDC		
-	MIL-STD-810F, Method 514.5, Proc 1, Category 4, 10		
-	MIL-STD-810F, Method 516.5, Proc. I, IV, VI		
-	UL60950-1, CSA 22.2 No 60950-1, EN60950-1 (Ed 2), CE Mark		
-	Complies with SEMI F47 (200VAC line only)		
-	Conducted: EN55022/EN55011 Class B, Radiated: Class A		
-	IEC61000-4-2 (Contact Level 2, Air discharge Lvl 3), -3 (Lvl 3), -4(Lvl 3), -5 (Lvl 3), -6 (Lvl 3), -8 (Lvl 3), -11 (Class 3), -12 (Lvl 3), -14 (Class 3)		
a	1240g (without cover)		
	254 x 112 x 44mm (262mm including AC connector)		
yrs	2 years		
	A A % W C C C ms uA		

- (1) 110/220VAC
- (2) 100% loading required.
- (3) Warm up period of 30 minutes below -30°C for ripple. Jeita RC-9131C Method, see instruction manual for test methods.

CPFE1000FI Series

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) ⁽⁴⁾						
	Input	Output P	Output Power (W)			
Model	Voltage	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) Models mounted in the horizontal orientation. See instruction manual for alternative mounting positions and the corresponding derating guidelines.

Options	
Suffix	Description
/C	Cover
/H	Pcb coating
/P	No U channel (pcb type)
Example:	CPFE1000FI-28/CH

For Additional Information, please visit https://product.tdk.com/info/en/products/power/index.html

