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Murata Power Solutions Inc. CEF400-112C

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Distributor of Murata Power Solutions Inc.: Excellent Integrated System Limited

Datasheet of CEF400-112C - AC/DC CONVERTER 12V 400W

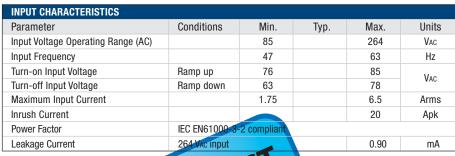
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CEF400-112C

400 Watt Open Frame Single Output AC/DC Switching Power Supply

PRODUCT SPECIFICATIONS



	OUTPUT C	HARACTERISTICS	()				
	Output Voltage	Paramete Par	OPULIZA	FD	Тур.	Max.	Units
		OK	C400-1		12.125	12.16	VDC
		46	MAC	. 1.75		12.45	VDC
		mer	If IA.			175	mV p-p
		Jacemie		33.3			Α
	25	-d repic		4.85	5	5.15	VDC
	V	endeu		4.85		5.15	VDC
	my	Ivoise ¹	20MHz Bandwidth			50	mV p-p
F	geco.	μιρυt Current			1.3		Α

arameter	Conditions	Min.	Тур.	Max.	Units	
Remote Sense	Sum of +ve & -ve drops		500		mV	
Efficiency	Full load, high line		83		%	
Turn on Delay			2		S	
Transiant Deanance	12V Ramp 1A/µs 33% step			±375	mV	
Transient Response	5Vsb Ramp 1A/µs 33% step			±40		
	200-720W load (2 in parallel)		45/55		%	
Ourse Accuse	96-200W load (2 in parallel)		40/60			
Current Sharing Accuracy	50-96W load (2 in parallel)		20/80			
	24-50W load (2 in parallel)		10/90			
Hold-up Time, to 10.8V	400W, 120Vac line	20			ms	
laclation	Output to Chassis-Basic	500			Vrms	
Isolation	Input to Chassis-Basic	1500				
Temperature Coefficient	0.02	% / °C				

Ripple and noise are measured with 0.1 µF of ceramic capacitance and 10 µF of tantalum capacitance on each of the power supply outputs. The output noise requirements apply over a 0 Hz to 20 MHz bandwidth. A short coaxial cable with 50Ω scope termination is used.

PROTECTION CHARACTERISTICS							
Parameter	Output Voltage	Conditions	Min.	Тур.	Max.	Units	
Over Voltage		Latching	14.065	14.5	14.935	٧	
Over Current		Auto-restart	36	38	42	Α	
Short Circuit	12V	The 12V output shall current limit and shutdown during a shorted output condition, and shall automatically restart after the short is removed.					
Over Voltage	E\/ab	Latching	5.6		6	V	
Over Current	5Vsb	Auto-restart	1.4	2.1	2.65	Α	
Over-temperature	Unit	Auto-restart Unit shall self-protect against excessive internal temperatures and automatically recover.					
Input Undervoltage	No damage will be sustained by operation at voltages below the specified input operating voltage range.						



FEATURES

- 400W continuous output power
- Low profile (1U)
- IEC EN61000-3-2 compliance
- Remote sense compensation
- AC Power Fail signal
- DC Power Good signal
- Remote Inhibit control
- Droop current share
- Built-in OR-ing FET
- I²C interface
- 5V Standby
- Integrated cooling fan (variable speed)
- Over-voltage protection
- Over-current protection
- Thermal overload protection

DESCRIPTION

The CEF400-112C is a 400W active power-factor-corrected (PFC) front-end power supply for distributed power architecture (DPA) systems requiring high power density in a 1U low profile package. The built-in OR-ing FET allows the power supply to operate in active current sharing mode for redundant (N+1) operation. Additional features include I²C interface, built-in fan and a 5V standby auxiliary output. The CEF400-112 provides reliable 12V bulk power for Information Technology Equipment and Industrial Applications.







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MONITORING AN	D CONTROL SIGNALS
AC Fail	TTL logic signal goes high to denote loss of AC input. Power supply will provide a minimum of 5ms from loss of AC input before this signal goes high. Additionally a minimum of 3ms of holdup will be provided between the signal going high and the output going out of regulation. The signal will not go high when loss of AC input is less than 5ms in duration.
DC OK	TTL logic goes high after the output is in regulation. It goes low when there is loss of regulation.
Remote On/Off	TTL logic input signal disables the output when held low, and enables the output when held high.
Remote Sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Unit is protected against reverse connection of the remote sense lines.

EMISSIONS AND IMMUNITY						
EN55022 Class B conducted						
IEC/EN 61000-4-2, Level 3						
IEC/EN 61000-4-3, Level 3						
IEC/EN 61000-4-4, Level 3						
IEC/EN 61000-4-5, Level 3						
IEC/EN 61000-4-6, Level 3						
EC/EN 61000-4-8, Level 3						
C/EN 61000-4-11, Level 3						

SAFETY	
UL	UL60950-1 (E151252)
cUL	CSA C22.2 No. 60950
СВ	US/13399/UL per IEC
Material Flammability	UL 94V-0

OBSOLETE PRODUC

Recommended replacement MVAC400-12

Recommended replacement MVAC400-12 Min. Max. Units Non-condensing -40 + 85 °C w/o derating 0 50 Non-condensing 10 90 % 5 95

RELIAB		
	Calculated ² per MIL-HDBK-217N2, GB, 25°C, Quality Level I	212khrs
MTBF	Calculated ² per Telcordia SR-332, Issue 1, Method 1, Case 3, GFC, Ground fixed, Controlled, Quality Level I	293khrs

MECHANICAL	
Dimensions	4.0" × 7.0" × 1.59" (101.6mm × 177.8mm × 40.39mm)
Weight	2.0 lbs (0.91 kgs)
Vibration	Designed to meet IEC 68-2-6 to the levels from IEC 721-3-2
Shock	Designed to meet IEC 68-2-27
Drop	Designed to meet IEC 68-2-31
Tip over	Designed to meet IEC 68-2-31

I ² C INTERFACE						
Software Remote On/Off over I ² C	Writing 0x7F at address 40 disables the output of the unit Writing 0xFF at address 40 enables the output of the unit					
Parametric Reporting Read Byte	Reading at address 40 over I2C lines, give the 'Parametric Reporting Read Byte', which is detailed below					

BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
Output Enable	(normal 1)	(normal 1)	(normal 1)	Over Temperature	Fan Fault	Output OK	Input Ok
		1 Unit Ena	abled			1 Over	temperature exists

DIT 7	Output Enable	1	Unit Enabled
BIT 7	Output Enable	0	Unit Disabled
BIT 6	NOT USED	1	Set to 1
BIT 5	NOT USED	1	Set to 1
BIT 4	NOT USED	1	Set to 1

DIT 0	Over Temperature	1	Over temperature exists
BIT 3	T 3 Over Temperature		No over temperature
BIT 2	Fan Fault	1	Fan locked rotor fault exists
DII Z	raii rauit	0	Fan OK
BIT 1	0.11.01/	1	Output fault exists
BILL	Output OK	0	Output OK
BIT 0	Input OK	1	Input fault exists
BILO		0	Input OK

Notes

Specifications subject to change without notice.

Specifications are at factory settings.

. Warranty: 1 year.

²Calculated figures exclude the integral fan.

www.murata-ps.com/support

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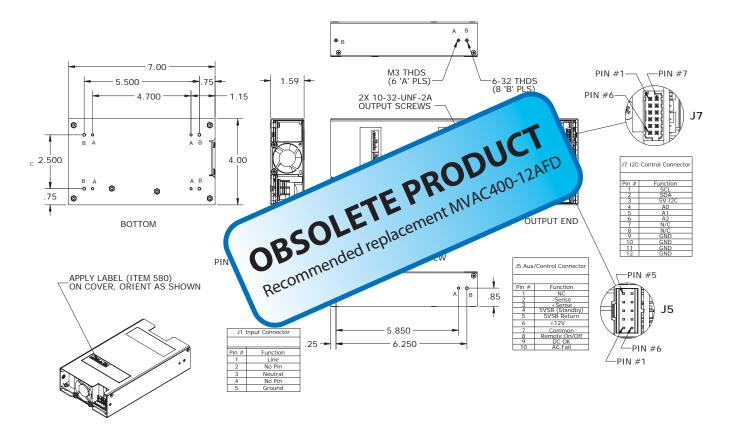
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MECHANICAL DIMENSIONS



J1 (Molex #26-62-4051, 5 Position, 3-Pin, .156" Straight Header)

Mating Plug Housing Molex #09-50-8051 Mating Crimp Terminal Molex #08-52-0113

J5 (Molex #90130-3210, 10 Position C-Grid-III Receptacle, .100")

Mating Plug Housing Molex #90142-0012

 Mating Crimp Terminal
 Molex #90119-0121

 J7 (Molex #87833-1231, 12 Position 2mm Milli-Grid)
 Mating Plug Housing
 Molex #51110-1260

 Mating Crimp Terminal
 Molex #50394-8100

Murata Power Solutions, Inc. 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. ISO 9001 and 14001 REGISTERED



This product is subject to the following <u>operating requirements</u> and the <u>Life and Safety Critical Application Sales Policy</u>:

Refer to: http://www.murata-ps.com/requirements/

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