

Product Features:

- 1U Horizontal or 2U Vertical Form Factor
- Small size of only 10.20 x 3.39 x 1.59" / 259 X 86 X 40.5mm
- Hot swap - Fault Tolerant
- Active current Sharing
- Remote on/off
- Extended temperature range
- UL, CSA, CE Certification
- EMI Level B



FEATURES	BENEFITS	KEY MARKET SEGMENTS & APPLICATIONS
High Power Density	Minimizes space allocated for power	<ul style="list-style-type: none"> ■ Distributed power ■ Network attached storage
System Scalability up to 2500 Watts	Allows flexibility with minimum investment	<ul style="list-style-type: none"> ■ Blade servers ■ Mid-end servers
1U x 2U high form factor	Flexible solution for vertical or horizontal mounting	<ul style="list-style-type: none"> ■ Storage area networks
Load Sharing / Fault Redundant	Increased system reliability and Stress balancing.	<ul style="list-style-type: none"> ■ Network equipment
Universal Input & International Certifications	Reduced logistic costs	<ul style="list-style-type: none"> ■ Automatic test equipment

SPECIFICATIONS	500 Watt +48V Front End Power Supply
Input Voltage Range	90-264 VAC, 47-63 Hz
Input Current Maximum	6.9A @ 90VAC, 2.6A @ 230 VAC, full Load
Inrush Current	20A max. peak (per ETS 300 132-1 and bellcore specifications)
Power Factor	0.99 typical complies with IEC555, EN60555-2, EN61000-3-2
Efficiency	85% typical at 230 VAC Full Load Operation (including ORing diode)
Output Power	500W
Output Voltage Range	+48 VDC (±1 VDC)
Output Current	10.4A @ 48VDC
Output Regulation	±0.5% Load Regulation, ±0.1% Line Regulation
Output Ripple & Noise	Complies with ETS300 132-2, 32dBnc. Bandwidth: 25Hz - 20kHz. 2mVrms pk-pk with 0.1µF ceramic and 10µF electrolytics caps at the output
Transient Response	Overshoot 1V max. Recovery time: 4ms @ 50% load step and di/dt < 1A/µs
Start-Up Time	1sec typical (max. 3sec)
Hold-Up Time	10msec at full load
Remote on/off	ON if >3V or open; OFF if <1V (max. sink 1mA) Open collector type
Current Limit Protection	12.5A maximum
Over Voltage Protection	+59.5 VDC
Operating Temperature	-20°C to +70°C. power derating above 55°C at 10W per °C (-40°C start-up)
Over Temperature Protection	Non latching; protection active at 110°C internal temperature, restart at 95°C (typical)
Cooling	Fan cooled front to back; variable speed
EMI	Class B (FCC and CISPR compliant) - EN55022 level B, CE marktd, Telecordia GR-63-CORE
LED Indicators	LED: DC good (green)
Controls and Signals	Load sharing, Remote ON/OFF, DC fault, Current Monitor, Over temperature protection
Shock & Vibration	IEC68-2-27, MIL-STD-810E
Isolation	Input to Ground: 1500VAC, Input to Output: 3000VAC
Dimensions	10.20 x 3.39 x 1.59" / 259 x 86 x 40.5mm
Weight	2.8 lbs / 1.35kg
Safety Approvals	UL/cUL 60950, CE Mark (LVD)

Specifications listed assume 25°C Ambient Operating Temperature and Full Load Operation unless otherwise specified. This product is qualified for use in OEM equipment and is not appropriate for stand-alone operation. The information contained within this specification is believed to be true and correct at the time of publication, however, Cherokee International accepts no responsibility for consequences arising from printing errors or inaccuracies. The information and specifications contained herein are subject to change without notice.

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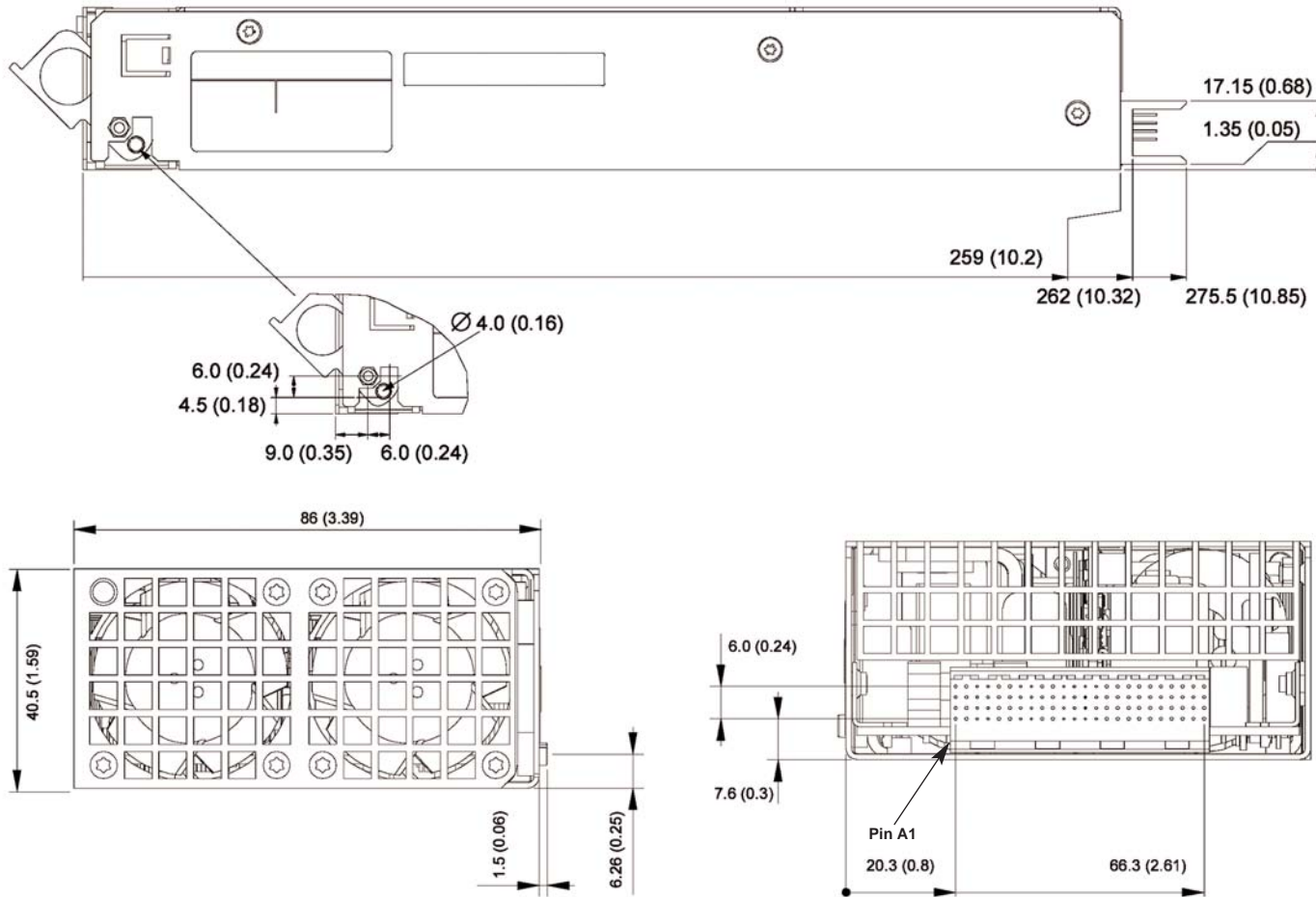
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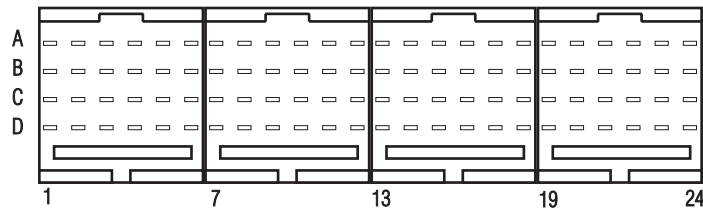
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OUTLINE DRAWING



CONNECTOR

Metral F receptable-64 CTS-STB Part nr. HM1S43FRR460H6P = straight version for PCB
 Metral F receptable-64 CTS-PF Part nr. HM1F43FDP459H6P = right angled version for PCB
 Manufacturer : Framatome Connectors



PIN ASSIGNMENTS																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
A	Earth		n/c		Line		n/c		Neutral		n/c				Inhibit	Ground	Current Share		+48 VDC						
B															n/c										
C															Current Monitor	Remote on/off	OVP								
D															DC Fault	OTP	n/c								

PART NUMBER DEFINITION GUIDE:									
CAR	05	48	F	P	X	-1A			
Series Name		Power 05:500W	Output Voltage 48: +48 Vout	Type: F = Front End Switcher	Polarity: P = Positive	RoHS: Blank = Non-Compliant Y = 5 of 6 Compliant Z = 6 of 6 Compliant			

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