

Features:

- 1500W in a 1.6U Height Package
- High power density and efficiency
- Intelligent monitoring and control capability
- Active Single Wire Current Sharing
- Voltage Programming
- 19" Rack available (4500W in a 1.6U rack)
- CE, UL, CSA certification



FEATURES	BENEFITS
Constant Output Power	Ideal for battery backup architectures
Load Sharing / Fault Redundant	Suitable for N+1 redundant operation
Voltage Programming	Designed for float charging VRLA batteries
Universal Input & International Certifications	Meets all worldwide standards
Ideal for 2U or 3U applications	Offers high power density in 19" shelf
Built-in variable speed fan	Low noise and increased reliability

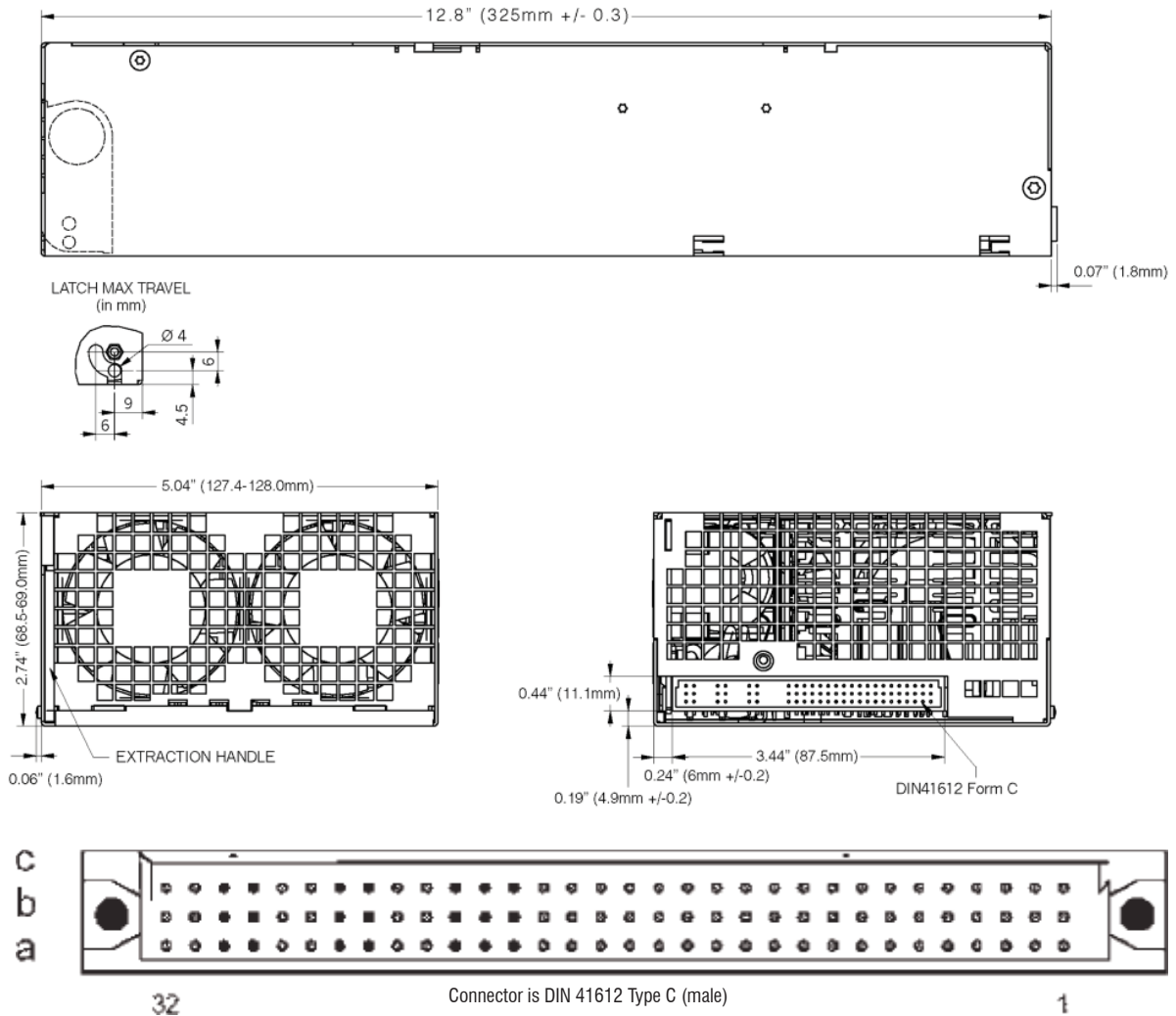
KEY MARKET SEGMENTS & APPLICATIONS

- Distributed Power
- Telecom Access Nodes
- Satellite Hubs
- Broadband Switcher
- XDSL Access Networks
- Cellular Base Stations
- Wireless Communication
- RF Amplifiers

SPECIFICATIONS	1500 Watt -54VDC Rectifier Module
Input Voltage Range	90-264VAC, 47-63Hz
Input Current Maximum	13.5A @ 90VAC, 10.5A @180VAC
Inrush Current	35A max. peak (ETS 300 132-1 compliant)
Input Fuse	Two fuses; 15A/250V Internal Axial type 3AB
Power Factor	0.99 typical at full load and nominal line (EN 6100-3-2 compliant)
Efficiency	91% typical at 230V (including ORing diode in the -DC)
Output Power	1500W @ High-line (180-264VAC) and 1000W @ Low-line (90-160VAC)
Nominal Output Current	28A (high-line) and 19A (low-line) @ -54.6VDC
Output Voltage Range	-40V to -57V with remote programming (factory set @ -54VDC)
Voltage Regulation	250mV for any combination on load, line and temperature
Output Ripple & Noise	Narrow band noise (25-20000Hz bandwidth) per ETS 300 132-2, CCITT 0.41Wide band noise: max. 2mVrms psophometric and max. 5mrms
Transient Response	Overshoot 1V max. Recovery time: 4ms maximum (@ 50% load step and di/dt <1A/μs)
Start-up Time	1sec typical (max. 3sec)
Hold-up Time	20msec at full load
Remote on/off	ON: external 10k resistor. OFF: tied to 0V signal or open connection
Current Limit Protection	33.5A
Over Voltage Protection	-59 to -60Vdc - latching, reset by recycling remote OFF or AC Line
Over Temperature Protection	Non latching; protection active at 110°C internal temp., restart at 95°C (typical)
Operating Temperature	-25°C to +70°C. Internal derating above 55°C at 30W per °C (-40°C start up)
Output Power Good	Open drain active high, pull-up to 5V standby
Emissions	Level Class B (FCC and CISPR compliant) - EN55022 level B, CE Marking Level B)
LED Indicators	Mains presence (green), DC good (green), Thermal shut down (red), Over voltage (red)
Cooling	Built in fan. Horizontal front to back with variable fan speed
Shock & Vibration	IEC 68-2-27, MIL-STD-810E, 20G, Telecordia GR-63-CORE, GR-487-CORE
Alarm & Monitoring	AC OK, AC High, DC OK, Temperature OK. For the three signals: PNP open collector (0V signal related to +out), when GOOD: 10V/5mA, Output current reading, missing module
Controls	Active load sharing, Remote programming, Remote ON/OFF
Dimensions	12.8 x 5.04 x 2.74" / 325 x 128 x 69.5mm
Weight	7.05 lbs / 3.2kg

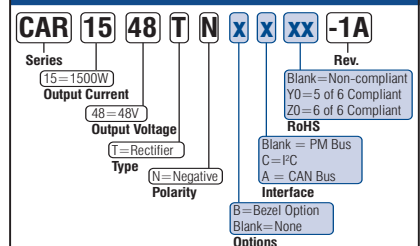
Specifications listed assume 25°C Ambient Operating Temperature and Full Load Operation unless otherwise specified. This product is qualified for use in OEM equipment and is not appropriate for stand-alone operation. The information contained within this specification is believed to be true and correct 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.

OUTLINE DRAWING:



Pin No.	Function	Pin No.	Function	Pin No.	Function
A1-A7	OUT - [54V]	B1-B7	OUT - [54V]	C1-C7	OUT - [54V]
A8	Do not connect	B8	Do not connect	C8	Do not connect
A9-A15	OUT + [+0V]	B9-B15	OUT + [+0V]	C9-C15	OUT + [+0V]
A16	DC OK	B16	Do not connect	C16	Do not connect
A17	5VSB	B17	AC OK	C17	Sharing
A18	5VSB Return	B18	Temperature OK	C18	AC High
A19	Missing module	B19	Remote ON/OFF	C19	0V signal
A20-A22	REMOVED	B20-B22	REMOVED	C20-C22	REMOVED
A23-A24	LINE	B23-B24	LINE	C23-C24	LINE
A25-A26	REMOVED	B25-B26	REMOVED	C25-C26	REMOVED
A27-A28	NEUTRAL	B27-B28	NEUTRAL	C27-C28	NEUTRAL
A29-A30	REMOVED	B29-B30	REMOVED	C29-C30	REMOVED
A31-A32	PE	B31-B32	PE	C31-C32	PE

PART NUMBER DEFINITION GUIDE:



Examples:

CAR1548TN-1A = RoHS Non-Compliant
CAR15TNY0-1A = RoHS 5 of 6 Compliant
CAR1548TNZ0-1A = RoHS 6 of 6 Compliant

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