

Features:

- 3U High
- Up to 12,000W in a 19" Rack
- Single & Three Phase Input Models
- Fits 3 Hot-Plug / N+1 Redundant Rectifiers
- Individual Input feeds with O-ring Diodes
- Current Sharing and Remote Sensing
- World-wide safety approvals
- Optional 1U Controller Available



FEATURES	BENEFITS
Single wire current sharing	Provide system stress balancing and increases reliability
Constant power characteristic	Better suited for battery charging applications
No Minimum Load	Eliminates need for pre-load resistors. Reduces cost of ownership.
Optional 1U High Controller	Addresses telecom application requirements for redundant operation

KEY MARKETS & APPLICATIONS

- Central Office
- Telecom Access Nodes
- Satellite Hubs
- Broadband Switchers
- XDSL Access Networks
- Cellular Base Stations
- Wireless
- RF Amplifiers
- PCS Installations
- Factory Automation

SPECIFICATIONS	12,000 Watt Power Shelf for CAR4000T Rectifier Modules					
	ACE403TN-1A	ACE403T-1A		ACE433TN-1A	ACE433T-1A	
Rack Model Number	ACE403TN-1A	ACE403T-1A		ACE433TN-1A	ACE433T-1A	
Rectifier Module Part Number	CAR4010L1TN-1A	CAR4010L1T-1A	CAR4010K1T-1A	CAR4030L1TN-1A	CAR4030L1T-1A	CAR4030K1T-1A
Voltage Range	-40 ~ -58 VDC	+40 ~ +58 VDC	+20 ~ +29 VDC	-40 ~ -58 VDC	+40 ~ +58 VDC	+20 ~ +29 VDC
Output Current	250A @ -54Vout	250A @ +54Vout	500A @ +27Vout	250A @ -54Vout	250A @ +54Vout	500A @ +27Vout
Input Voltage	Single Phase 180-264 VAC / 47-63 Hz			Three Phase 180-264 VAC / 47-63 Hz		
Maximum Input Current (per module)	25A @ Full Load and 180 VAC Operation (per module)			15A per phase @ Full Load and 180 VAC Operation (per module)		
Maximum Output Power	12,000 Total Output Power (8,000 Watts Redundant Output Power)					
AC Input Feeds	Individual Input Feeds for each rectifier for 4mm2 cable					
Input Protection	Each CAR rectifier module is equipped with it's own internal fuse					
Efficiency	90% typical at 230VAC					
Regulation (Line & Load)	+/- 0.5% of V1					
Ripple & Noise	1% of V1 (pk-pk) - using 10µF tantalum cap. and 0.1µF ceramic cap.					
Load Sharing	Single wire. +/- 5% of nominal current					
DC Bus	Rectifiers connected in parallel. Floating bus with common "+". Maximum current is 250A					
Status Indicators	DC Good and Temperature OK (Green), AC Good (Amber)					
Alarm Signals	Over Temperature, Over/Under Voltage, No Power, Module not present					
Battery Interface	RJ45 signal connector per rectifier. RS232 for programming via laptop (with Controller).					
Temperature Range	0 to 50°C at rated output power. Derates linearly to 60°C at 2.2% per °C					
Shock & Vibration	Per MIL STD-810F, NEBS Compliant to GR 63 Core					
EMI / EMC	Meets EN61000-3-2, -3 CISPR22 and FCC Part 15 Class A, Bellcore GR-1089-Core					
Safety Approvals	UL: 478, 1012, 1950; CSA 22.2 No. 650; IEC: 380, 435, 950; VDE: 0804, 0806; & CE Mark (LVD)					
Dimensions	Chassis Measures 18.00"/457.2mm (depth) x 17.165"/436.0mm (width) x 5.12"/132.1mm (height)					

Outline Drawing

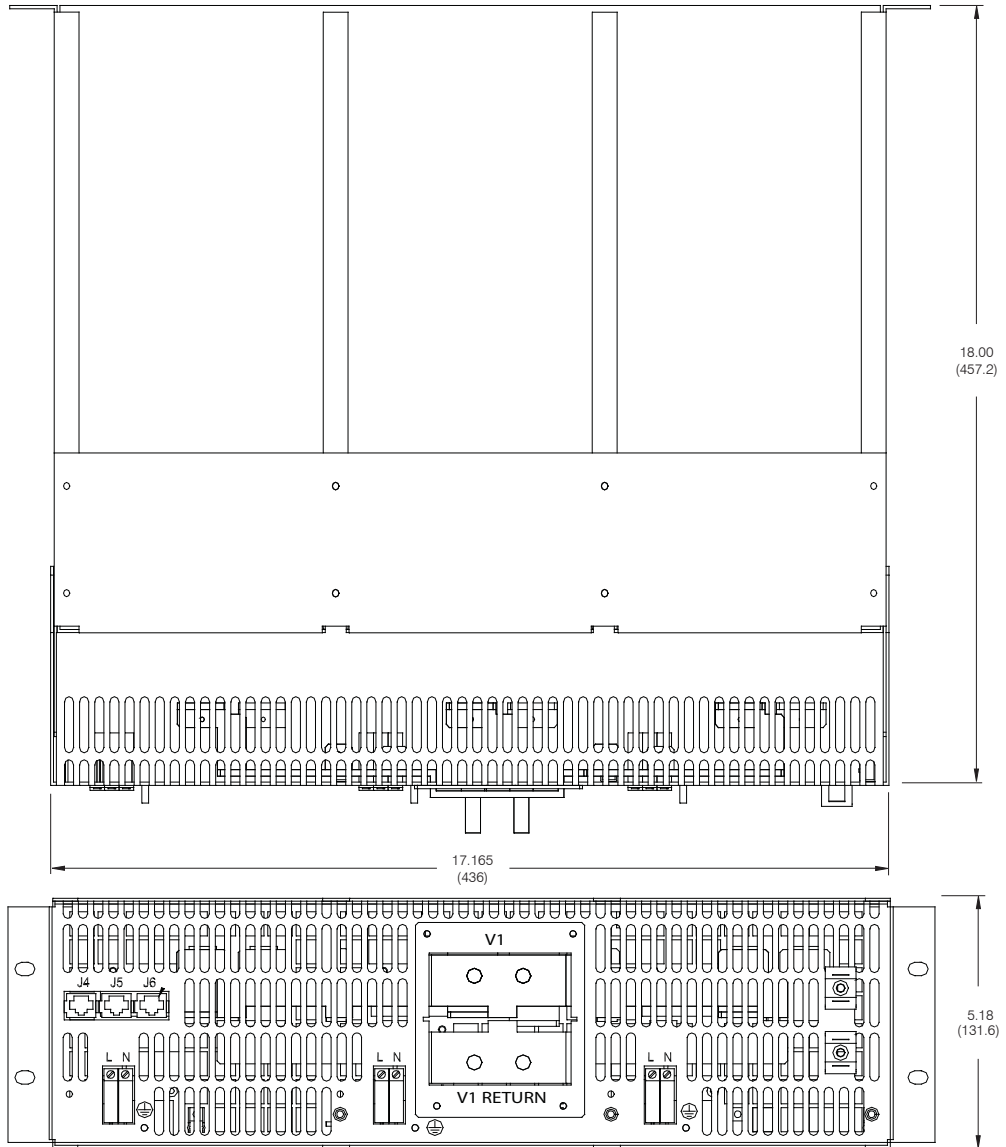
J4 / J5 / J6 are RJ45 Receptacle
AMP Part Number 55162-1

J4	FUNCTION
1	IOUT 1
2	IOUT 1 (RS)
3	VPROG 1
4	VPROG 1 (RS)
5	I-SHARE 1
6	ALARM 1
7	GROUND 1 (RS)
8	ON/OFF 1

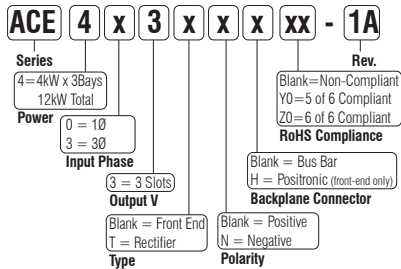
J5	FUNCTION
1	IOUT 2
2	IOUT 2 (RS)
3	VPROG 2
4	VPROG 2 (RS)
5	I-SHARE 2
6	ALARM 2
7	GROUND 2 (RS)
8	ON/OFF 2

J6	FUNCTION
1	IOUT 3
2	IOUT 3 (RS)
3	VPROG 3
4	VPROG 3 (RS)
5	I-SHARE 3
6	ALARM 3
7	GROUND 3 (RS)
8	ON/OFF 3

3-Phase Input Shelves
Use 3-Position Terminal
Blocks (Consult Factory
for Outline Drawing)



PART NUMBER DEFINITION GUIDE



Example Part Numbers:

Part #	Type	Phase	Polarity	Backplane Connector
ACE403T	Rectifier	Single	Positive	Bus Bar
ACE433T	Rectifier	Three	Positive	Bus Bar
ACE403TN	Rectifier	Single	Negative	Bus Bar
ACE433TN	Rectifier	Three	Negative	Bus Bar

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.