

**Features:**

- 3U High
- Up to 9,000W 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 High 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	• Cellular Base Stations
• Telecom Access Nodes	• Wireless
• Satellite Hubs	• RF Amplifiers
• Broadband Switchers	• PCS Installations
• XDSL Access Networks	• Factory Automation

SPECIFICATIONS	9,000 Watt Power Shelf for CAR3000T Rectifier Modules							
	ACE303TN-1A		ACE303T-1A		ACE333TN-1A		ACE333T-1A	
Rack Model Number	ACE303TN-1A		ACE303T-1A		ACE333TN-1A		ACE333T-1A	
Rectifier Module Part Number	CAR3010L1TN-1A	CAR3010K1TN-1A	CAR3010L1T-1A	CAR3010K1T-1A	CAR3030L1TN-1A	CAR3030K1TN-1A	CAR3030L1T-1A	CAR3030K1T-1A
Voltage Range	-40 ~ -58 VDC	-20 ~ +29 VDC	+40 ~ -58 VDC	+20 ~ +29 VDC	-40 ~ -58 VDC	-20 ~ +29 VDC	+40 ~ -58 VDC	+20 ~ +29 VDC
Output Current	164.5A @ -54Vout	333A @ -27Vout	164.5A @ +54Vout	333A @ +27Vout	164.5A @ -54Vout	333A @ -27Vout	164.5A @ +54Vout	333A @ +27Vout
Input Voltage	Single Phase 180-264 VAC / 47-63 Hz				Three Phase 180-264 VAC / 47-63 Hz			
Maximum Input Current (per module)	19A @ Full Load and 180 VAC Operation (per module)				11A per phase @ Full Load and 180 VAC Operation (per module)			
Maximum Output Power	9,000 Total Output Power (6,000 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 16.00"/406.4mm (depth) x 17.165"/436.0mm (width) x 5.12"/132.1mm (height)							

rev 100506

[www.lineagepower.com/oem](http://www.lineagepower.com/oem)

**Lineage Power**

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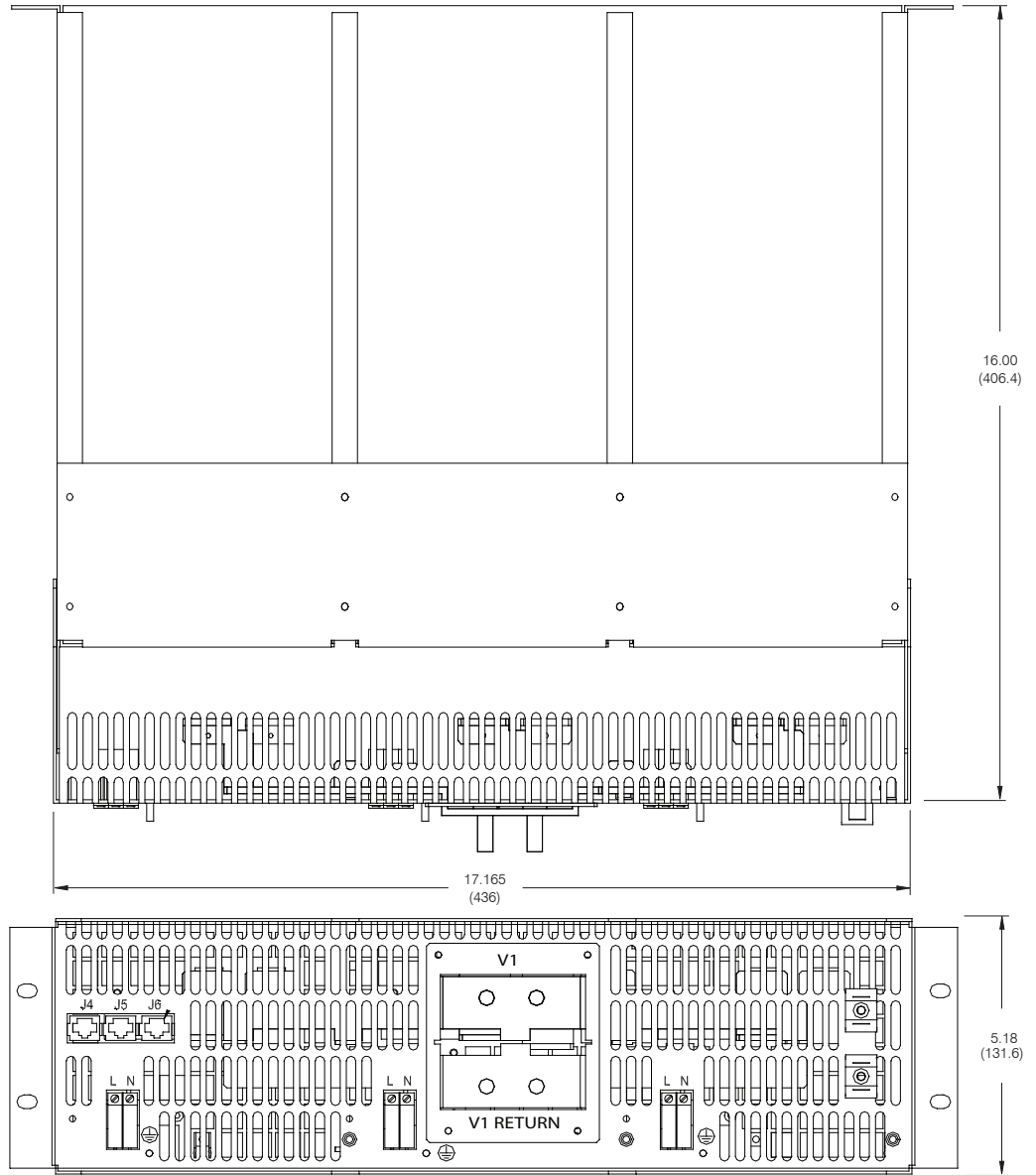
### Outline Drawing

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

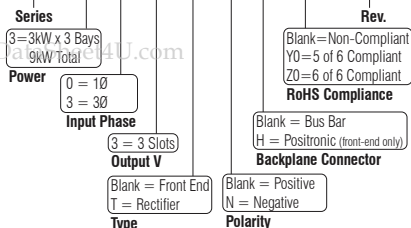
J6	FUNCTION
1	IOUT 3
2	IOUT 3 (RS)
3	VPROG 3
4	VPROG 3 (RS)
5	I-SHARE 3
6	ALARM 3
7	GROUND 3 (RS)
8	ON/OFF 3



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

### PART NUMBER DEFINITION GUIDE

**ACE 3 x 3 x x x xx - 1A**



### Example Part Numbers:

Part #	Type	Phase	Polarity	Backplane Connector
ACE303T	Rectifier	Single	Positive	Bus Bar
ACE333T	Rectifier	Three	Positive	Bus Bar
ACE303TN	Rectifier	Single	Negative	Bus Bar
ACE333TN	Rectifier	Three	Negative	Bus Bar