

Product Features:

- Hot-swap N+1 Redundancy
- Single phase or Three phase Input
- Power Factor Correction
- Over Voltage, Over Current and Thermal Protection
- Visual LED Indicators
- 19" 3U high rack available



FEATURES	BENEFITS	KEY MARKET SEGMENTS & APPLICATIONS
No minimum load requirements	Eliminates the need for preload on system backplane	■ Wireless/Cellular ■ Energy Systems
Modular design	Easy insertion and extraction during hot swap	■ Central Office Switching
Single phase or three phase inputs	One stop shopping, breadth of line for 24V and 48V outputs	■ PCS Installations
Constant power characteristics	Better suited for battery charging applications	■ Bulk power front ends for distributed power architecture

SPECIFICATIONS	CAR3010K1T	CAR3010L1TN	CAR3030K1T	CAR3030L1TN
Input Voltage Range	Single Phase Input 180-264 VAC / 47-63 Hz	Single Phase Input 180-264 VAC / 47-63 Hz	Three Phase Input 180-264 VAC / 47-63 Hz	Three Phase Input 180-264 VAC / 47-63 Hz
Input Current (Maximum Continuous)	19A max	19A max	11A per phase max.	11A per phase max.
Inrush Current	50A max	50A max	50A max (per phase)	50A max (per phase)
Input Fuse (Internal Axial Type)	Single Fuse 25A 3AG	Single Fuse 25A 3AG	Single Fuse per Phase 15A 3AG	Single Fuse per Phase 15A 3AG
Power Factor	0.99	0.99	0.95	0.95
Efficiency	90% Typical @ 230 VAC	90% Typical @ 230 VAC	90% Typical @ 230 VAC	90% Typical @ 230 VAC
Output Voltage & Current	+27V @ 111A	-54V @ 55.5A	+27V @ 111A	-54V @ 55.5A
Adjust Range (External Programming)	+20~29 V	-40~58 V	+20~29 V	-40~58 V
Over Voltage Protection	+29.5~30.5 (Latched)	-58.5~-59.5 (Latched)	+29.5~30.5 (Latched)	-58.5~-59.5 (Latched)
Standby Voltage	5VSB @ 500mA			
Line Regulation	0.5% using remote sense (5% on Stand-by Voltage)			
Load Regulation	0.5% using remote sense (5% on Stand-by Voltage)			
Output Ripple & Noise	<1% (pk-pk)			
Transient Response	3% max deviation 0.50ms recovery time for a 25% load change			
Start-up Time	2 seconds			
Hold-up Time	>20ms at low line			
Overshoot / Undershoot	1% at turn ON/OFF			
Temperature Coefficient	0.02% per °C			
Remote ON/OFF	Logic 1 (TTL High) or open enables unit (ON), Logic 0 (TTL Low) or short shuts unit down (OFF)			
Power Fail Signal	Signal goes low (TTL Low) 2ms before loss output regulation			
Current Limit Protection	110-140% V1, 5VSB < 2.5A. Automatic recovery. Constant power characteristic			
Over Temperature Protection	Automatic shutdown with auto recovery. Thermal shutdown point @ 95°C			
MTBF	300,000 hrs per Bellcore standard			
Output Power Good	TTL High = Power Good, TTL Low = Output out of limits			
LED Indicators	DC Good: Green LED; Temperature OK: Green LED and AC Good: Amber LED			
Operating Temperature	0°C to 50°C at rated output power. Supply derates linearly from 50°C to 65°C at 2.2% per °C			
Cooling	Self contained ball bearing fan			
Shock & Vibration	NEBS Compliant to IEC68-2-27 & MIL-STD-810E, Telcordia GR-63-CORE, GR-487-CORE			
EMI/EMC	Meets EN61000-3-2, -3 CISPR22 and FCC Part 15 Class A, Bellcore GR-1089-CORE			
Dimensions	12.12 x 5.00 x 5.00" / 307.9 x 127 x 127mm (handle extends additional 1.00" / 25.4mm from faceplate)			
Weight	11.5 pounds / 5.23 kg			
Safety Approvals	UL1950, CSA 22.2 No. 650, TUV EN0950 & CE Mark			

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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OUTLINE DRAWING

J1 INPUT CONNECTOR (Single Phase Models)

Pin Number	Function
1, 4	Chassis Ground
2, 5	Line (L)
3, 6	Neutral (N)

Mates with Positronics Part # PLB06F0000 (Housing) / FC114N2 (Pins)

J1 INPUT CONNECTOR (Three Phase Models)

Pin Number	Function
1	Line 1
2	Line 2
3	Line 3
4	Chassis Ground

Mates with Positronics Part # PLB04F8000 (Housing) / FC114N2 (Pins)

OUTPUT BUS BARS

-54V Out Models	BB1 = V1	BB2 = RTN
+27V Out Models	BB1 = RTN	BB2 = V1

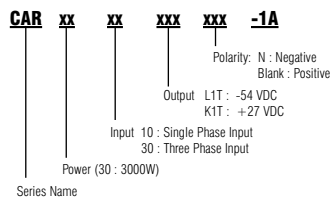
Mates with Elcon Part # 538-17-00100

J209 STATUS / CONTROL CONNECTOR

Pin Number	Function
1	5V Stand By
2	5V Stand By RTN
3	Module Present
4	Power Good
5	ON/OFF
6	I Share
7	Mod-Enable
8	OVP Test Point
9	AC Fail
10	V Programmable
11	V1 Sense
12	I Monitor
13	Temperature OK
14	RS (Return Sense)
15	N/C

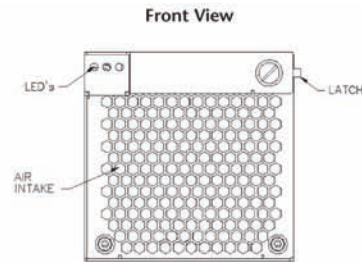
Mates with AMP Part # 205205-2 (Housing) / 205090-1 (Pins)

PART NUMBER DEFINITION GUIDE

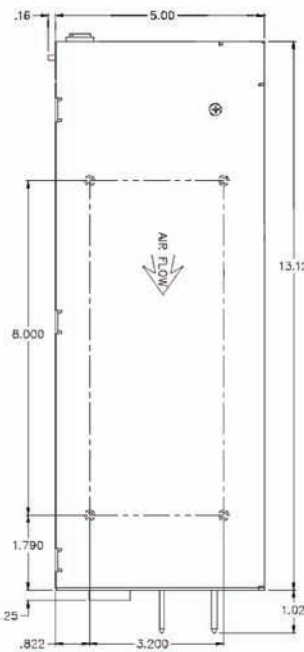


Example:

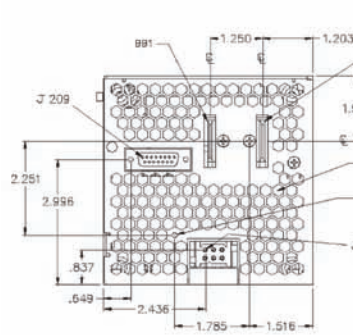
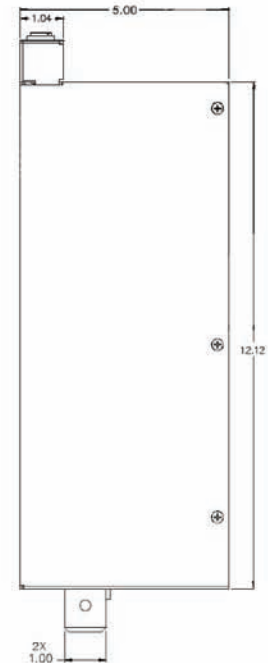
CAR3010L1TN-1A = 3000 Watt, -54 V Out, Single Phase Input
 CAR3030L1TN-1A = 3000 Watt, -54 V Out, Three Phase Input
 CAR3010K1T-1A = 3000 Watt, +27 V Out, Single Phase Input
 CAR3030K1T-1A = 3000 Watt, +27 V Out, Three Phase Input



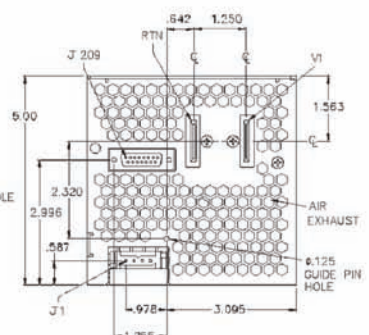
Top View



Side View



Rear View (1 Phase)



Rear View (3 Phase)

Optional ACE4000 3-Bay Power Shelves

Rectifier Part Number	Description	Power Shelf Part Number
CAR3010L1TN-1A	4kW / -54Vout / Single Phase Input	ACE303TN-1A
CAR3030L1TN-1A	4kW / -54Vout / Three Phase Input	ACE333TN-1A
CAR3010K1T-1A	4kW / +27Vout / Single Phase Input	ACE303T-1A
CAR3030K1T-1A	4kW / +27Vout / Three Phase Input	ACE333T-1A