

DATASHEET

ACE254RUW48

4 Bay / 10 Kilowatt Power Shelf





Features

- Universal Rack for the CAR2548FP and CAR2548TN
- 10kW (7,500W N+1)
- Fully Hot-Pluggable and Redundant
- Remote Sensing
- LED Indicators
- Built-in Alarm Signals
- Full Protection Features
- World-Wide Safety Approvals

KEY MARKETS & APPLICATIONS					
•	Base Stations	•	Central Office Switching		
•	Satelite Hubs	•	ATE Equipment		
•	Networking Equipment	•	RF Amplifiers		
•	Telecom Access Nodes	•	Distributed Power		

FEATURES	BENEFITS
Single Wire Current Sharing	Provide system stress balancing and increases
Constant Power Option	Better suited for battery charging applications
Constant Current Option	Designed for front-end bulk supply applications
Voltage Trimming Capability	Designed for float VRLA batteries
Control and Monitoring Signals	Allows for superior system control
Universal Input & Certificiations	Reduced logistic costs, meets world-wide standards
Built in Variable Speed Fan	Low noise and increased reliability
LVD and Controller Option	Complete system integration for telecom applications

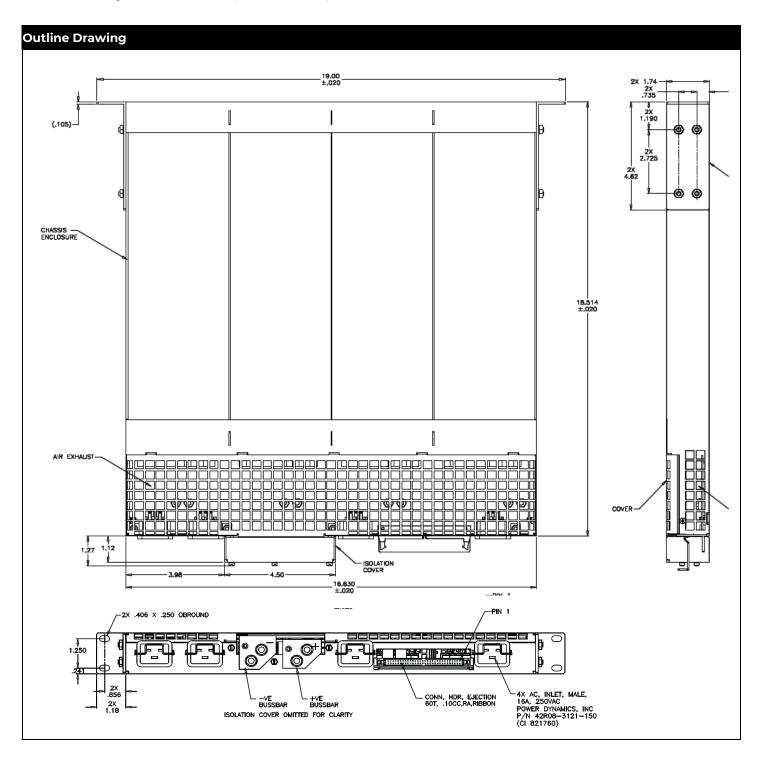


Technical Specifications

SPECIFICATIONS	10,000 Watt Power Shelf for Four CAR2548 F	ront End & Rectifier Power Supplies			
Rectifier/Front-End Model	CAR2548TN	CAR2548FP			
Output Voltage	-54V _{DC} ±0.2V	+48V _{DC} ±0.1V			
Output Voltage Range	-42V _{DC} to -56V _{DC}	+43.2 to +52.8V _{DC}			
Maximum Output Power	10kW (7,500W N+1 Redundancy) at High Line				
Output Current	208A at High Line and 48V _{DC} Operation				
Input Voltage*	180-264V _{AC} , 47-63Hz (Individual input feeds)				
Max Input Current (per	16A@180V _{AC}				
Maximum Inrush Current	50A per input (per ETS 300 132-1)				
Power Factor	0.99 typical. Complies with IEC555, EN60555-2, EN61000-3-2				
Efficiency	92% typical at nominal load and 230V $_{AC}$. (85% at 90V $_{AC}$)				
Regulation - Line	±2% of input power line				
Regulation - Load	±1% of load				
Ripple and Noise	Complies with ETS300 132-2, 32dBnrc. Bandwidth: 25Hz - 20kHz. ±1% pk-pk with 0/1uF				
Load Sharing	Active single wire load sharing. Unit to share ±10% of full load.				
Transient Response	5% max deviation, 300usec recovery time @ 50% step load and di/dt < 1A/us				
Status Indicators	AC good (GREEN), DC good (GREEN), FAULT (RED)				
Alarm Signals	AC OK, AC High, DC OK, Temperature OK, Module Present, Current Monitoring, Remote ON/				
Current Limit Protection	Self protected between the range of 110% - 130% of lout nominal				
Overvoltage Protection	59V _{DC} ±1V				
Temperature Range	-10C to 70C (Power derating above 50C at 2%/C)40C start up.				
Shock & Vibration	IEC 68-2-27, MIL-STD-810E, 20G, Telcordia GR-63-CORE, GR-487-CORE				
EMI/EMC	Class B (FCC and CISPR compliant) - EN55032 Level B. CE Marking Level B. GR-1089-CORE				
Safety Approvals	UL: 487, 1012, 1950 CSA 22.2 No. 650 IEC: 380, 435, 950 VDE 0804, 0806 & CE Marked TUV				
Dimensions	1.74" x 19.00" x 18.07" (44.1mm x 482.6mm x 459.05mm) - including mounting ears				

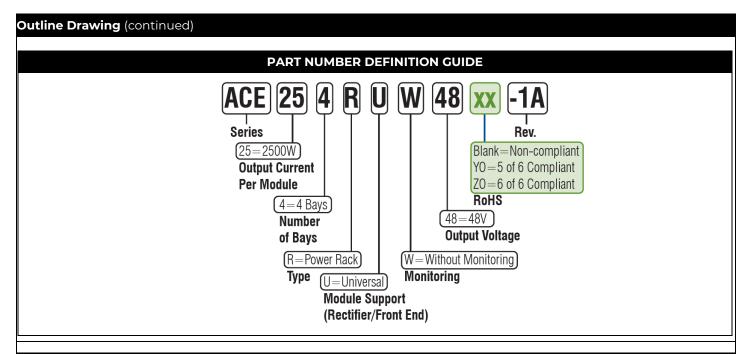


Technical Specifications (continued)





Technical Specifications (continued)



PIN OUT INFORMATION							
1	AC OK 1	16	FAULT 2	31	-	46	SDA
2	DC OK1	17	AC OK 3	32	FAULT 4	47	WP
3	MODPRES 1	18	DC OK 3	33	-	48	RS+
4	TEMP OK 1	19	MODPRES 3	34	-	49	RS-
5	ON/OFF 1	20	TEMP OK 3	35	-	50	Signal RTN
6	I MON 1	21	ON/OFF 3	36	-	51	-
7	-	22	I MON 3	37	-	52	3.3VSB
8	FAULT1	23	-	38	-	53	3.3VSB
9	AC OK 2	24	FAULT 3	39	-	54	3.3VSB
10	DC OK 2	25	AC OK 4	40	-	55	3.3VSB
11	MODPRES 2	26	DC OK 4	41	-	56	-
12	TEMP OK 2	27	MODPRES 4	42	I_SHARE	57	3.3VSB RTN
13	ON/OFF 2	28	TEMP OK 4	43	VPROG	58	3.3VSB RTN
14	I MON 2	29	ON/OFF 4	44	INT	59	3.3VSB RTN
15	-	30	I MON 4	45	SCL	60	3.3VSB RTN

Contact Us

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Change History (excludes grammar & clarifications)

Revision	Date	Description of the change
1.2	12/22/2021	Updated as per template
1.3	10/31/2023	Updated as per OmniOn template



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