

1400W

Telecom operators and infrastructure companies look for reliable, high quality, high efficiency cost effective power solutions. Exicom is proud to introduce one of the first commercially available dynamic and digitally controlled ultra high efficiency rectifiers, the **Horizon 48V, 1400W module**.



FRONT VIEW





BACK VIEW

ISOMETRIC VIEW

This building block continues our proud tradition of technical excellence while strengthens our four founding values:

- Creating a great customer experience;
- Ethical pursuit of our long term strategies.
- Cradle to grave sustainable designs;
- Social responsibility to our employees, suppliers and shareholders;

FEATURES AND BENEFITS

High efficiency

Extensive use of DSP controls, managing a dynamically optimized topology that yields a flat efficiency curve between 30 to 90% load while minimizing component count.

Ultra-high power density

Reduced energy losses with an optimized topology enables a small footprint, creating both a lower capital investment and lower operating cost, compared to similar installations.

Energy conservation w. dynamic source and load predictive algorithm to increase EB supply

This optional feature enables live statistical analysis results to manage the performance of the output, maximizing energy draw from the AC source, while reducing the load profile during stressed conditions.

Novel LIFE-cycle charging regime to increase useful battery lifespan by 40%

Our multi-mode intelligent charging algorithm combines energy conservation, SOC, Temp. and cycle life information to create an optimum V-I envelope for both charge and discharge curves.

Wide input voltage range - Operational: 80V - 310V; self protection up to 418V; auto restart

Intermittent, HV grid conditions are a norm in developing nations and even in developed ones. Rugged, high reliability, robust protection is designed into all Quantum products, to combat these EB weaknesses.

Plug and Play compatibility with previous generations -

Flexibility and freedom at minimal cost.



Horizon DC power solution lowers the total cost of ownership for wireless, fibre and fixed line telecom networks (efficiency, power density and conservation). Furthermore, the increased network speeds for broadband and optical network access lend themselves to the plug and play flexibility and expandability. Beyond its Telecom prowess, the emerging DC system architectures of Data/IT centers — network routers, switches and storage systems — and micro-grids for C&I buildings are also key vertical markets for our latest building block and systems that are expandable to 45kW.

200AUC POWER PLANT



AC INPUT				
Voltage	85 - 300V AC			
Frequency	45Hz-66Hz			
Current	≤18A Maximum			
THD	≤10%			
Power Factor	0.99 Typical			
Protection	Internal fuse	MOV for transient	Galvanic Isolation	
DC OUTPUT				
Voltage	42 - 58V DC			
Output Power	1400W			
Max. Current	27.5A for 48V DC			
Current Sharing	± 5% of max. current			
Static Voltage	0.5% for 10% - 100% load			
Regulation				
Ripple and Noise	<300mV peak to peak	30MHz bandwidth	<4mV rms Psophometric	
Output	Overvoltage shutdown Output Fusing Hot-plug Inrush Current		· -	
Protection	Overload fold back	Overtens shot off	limiting Short Circuit	
OTHER CRECIFICAT		Over temp. shut-off	Short Circuit	
Operating Temp.	OTHER SPECIFICATIONS 270C to 4750C linear do rating from 4500C			
Storage Temp.	-25°C to +75°C linear de-rating from +50°C -40°C to +85°C			
Humidity	5% to 95% RH non-condensing			
Efficiency	93% Typical			
Acoustic Noise	<55dBA			
MTBF	> 300,000 hrs., Telcordia SR-332			
Alarms	AC input abnormal	AC over/under voltage	Rectifier OK/Fail	
Adding	Communication fail	Fan Fail Temp. Shut-off	Output over/under voltage	
Cooling	Forced Cooling			
APPLICABLE STAN	_			
Electrical Safety	EN 60950	UL 60950		
EMC	EN 61000 - 6-1/6-2/6-3/6	6-4 EN 61000 - 3 - 2		
Environment		EN 300 019-2-1/2-2/2-3		
LIMITOTITIETIL		LIV 300 013-2-1/2-2/2-3		



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LED INDICATIONS



LED INDICATION	DESCRIPTION	
	OFF - AC Fail	
Green	ON - AC OK	
	Flash - SMR Comm. OK, Sleep Mode (Slow Flash)	
	OFF - Normal	
Yellow	ON - AC Low/High Cut-Off, I/P AC Derating, Temp. Derating, O/P Derating	
	Flash - SMR Comm. Fail	
	OFF - Normal	
Red	ON - High Temp. Shutdown, O/P Over /Under Volt, AC Low/High Cut-Off	
	Flash - SMR Fan Fail	

REAR CONNECTOR DETAILS



ITEM NO.	PINS TYPE	PINS DESCRIPTION	
1		Phase	
2	AC Input Pins	Neutral	
3		Earth	
4		Positive	
5	DC Quenut Dinc	Positive	
6	DC Output Pins	Negative	
7	-		
8	Communication Pins	Communication with MCM	

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