

FEATURES

High efficiency and highest power density
Typical 95%efficiency and 16.69W/in3 power density.

Digitalized control Digitalized Primary and secondary controls could realize excellent monitoring and regulation.

High reliability design
One fan front-to-back air flow
with latest thermal solution
and experienced electric
synthesize ensure suitable
working environment and high
reliability.

Disconnect mains when hazardous input DZY-48/15 HI will disconnect mains to protect itself when it can not sustain the input voltage. Excellent EMC performance Lower interference and excellent susceptibility give

module better reliability

DZY-48/15 HI



INTRODUCTION

DZY-48/15 HI is a digitalized rectifier module with outstanding reliability and world leading power density. 1U*2U size could save much space for the whole system; 1U high shelf could hold 5 pieces of rectifier modules. DZY HI, DZY HII and DZY HV series rectifier module and the power system is a big family of -48V DC power system which could cover global demand for telecom applications with wide operating temperature and wide input voltage range.



PPLICATIONS

Wireless communication
Broadband and network access
Satellite communication ground station
3G /4G /5G base station
Telecom roadside cabinets

- Switch Mode Power System
 Remote Monitoring System
- Renewable Energy Solution
- Distribution Cabinet
- DC/DC Converter
- Hybrid Power System
- Inverter
- UPS/EPS
- HVIXUPS



SPECIFICATIONS

Input		
AC supply	Nominal: 90V-300Vac (Nominal:220/230Vac)(Full Power@176-300 Tolerances:85-300Vac 1ph	
Frequency	45∼65Hz	
Input current	4A rms at nominal input 5A rms at 176Vac input	
Power Factor	>0.99	
Input protection	Varistors for transient protection	
THD	<5% at 100% load;<10% at 50% load	
DC Output		
Output Voltage	Nominal output: -48VDC Standby test Range:-48VDC (42VDC - 58VDC)	
Output power	850W at Nominal input	
Output current	17.7 A at Nominal input	
Efficiency	Typical 95%	
Current sharing	±5% unbalance of average current of all paralleled modules	
Static Voltage Regulation	±0.6% from 10% to 100% load	
Dynamic voltage	$\pm 5\%$ for 25% \sim 50% \sim 25% or 75% \sim 50% \sim	
regulation	75% load variation, regulation time < 200us	
Holdup time	> 10 ms, (15 A when output voltage from 53.6V to 42V)	
Ripple and	<200mv p-p, 20MHz bandwidth	
Noise	<2.0mv rms psophometric Overvoltage	
Output protection	shutdown	
	Short circuit proof	
	High temperature protection	
	Output fuse	

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	Mains over or under voltage		
Alarm	Mains over voltage disconnection		
	High or low ambient temperature		
	Short on output from outside		
Cooling	One fan (front to back airflow)		
Fan speed	Temperature and output current regulated		
MTBF	>100,000 hours (Tambient:25 °C)		
Acoustic noise	<55dBA at nominal input and full load (Tambient<30°C)		
Operating temp	10 to 175°C (10 to 1167°F)		
Storage temp	-40 to +85 °C (-40 to +185°F)		
Humidity	Operating: 95% non-condensing		
	Storage: 99% non-condensing		
Dimensions	86.5W×249.2D×41H (mm)		
Weight	1.5kg		

Applicable Standards		
Electrical Safety	y IEC60950 UL60950	
EMC	EN55022 Class B(emission) IEC61000-4-6(conducted immunity) IEC61000-4-3(radiated immunity) IEC61000-4-2(electrostatic discharge) IEC61000-4-4(fast transients) IEC61000-4-5(surge immunity) IEC61000-4-11 IEC61000-3-3	
Harmonics	EN 61000-3-2	
Environment	ETSI EN 300 019-2(-1,-2,-3) ETSI EN 300 132-2 Telcordia NEBS GR63 CORE Zone 4 RoHS compliant	

Certificate

CE

Europe