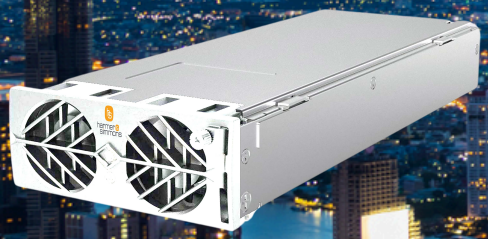
harmer & simmons

PROTECT ECO+R
HSR484_HE



- Maximum efficiency > 96.5%
- Power derating from 45° to 75°C
- Output power derating at <176VAC
- High power density

Brand	Family	Model	Rating (W)	Efficiency
H&S	Protect Eco+R	HSR484_HE	4350	96.5%

KEY FEATURES

In today's intensely competitive business sphere, amid escalating apprehensions regarding global warming, telecom Original Equipment Manufacturers (OEMs) and Service Providers are meticulously evaluating their operational outlays.

Why Opt for Our Services?

Cost-Effective Solutions:
We acknowledge the imperative of maintaining competitiveness in the market. Hence, our offerings are not only efficient but also financially prudent.

Heightened Efficiency:
Our products are meticulously crafted to maximize efficiency, ensuring optimal utilization of resources.

Adaptability to Elevated Temperatures:
With our cutting-edge technology, operations at elevated temperatures become seamless. Bid farewell to the necessity of costly air conditioning, thereby mitigating both expenses and environmental impact.

Digital Signal Processing (DSP) Architecture:
Our advanced DSP architecture ensures superior circuit integration, guaranteeing reliability and minimizing service disruptions.

The Implications?

Environmental Stewardship: By curbing the need for frequent service calls and maintenance visits, we actively diminish carbon emissions throughout the product lifecycle.

Reduced Operational Expenditure (OPEX):
Not only do you contribute to environmental sustainability, but you also achieve substantial savings in operational costs, fostering long-term business sustainability.

Applications

1. Wireless, Fiber, and Fixed Line Telecommunications:

Modern telecommunication systems demand more than mere raw DC power. They necessitate compact, reliable, and cost-effective power systems that are low on initial capital expenditure (CAPEX) and offer reduced operational expenditure (OPEX). The HSR484_HE meets these requirements and exceeds expectations. With world-class power density, exceptional reliability, a near-flat efficiency curve, and its innovative sleep mode for power management during low-traffic periods, the HSR484_HE truly delivers.

2. Broadband and Network Access:

As network bandwidth requirements continue to rise, network providers seek expandable and flexible DC powering solutions. Our new generation of systems, including the HSR484_HE rectifier, serves as the foundational elements for meeting all your requirements.

3. Size Matters Not:

Thanks to its high-power density and intelligent digital system architecture, HSR484_HE rectifiers can be seamlessly integrated into system solutions ranging from 4kW to 160kW, ensuring cost-effectiveness and adaptability to diverse needs.

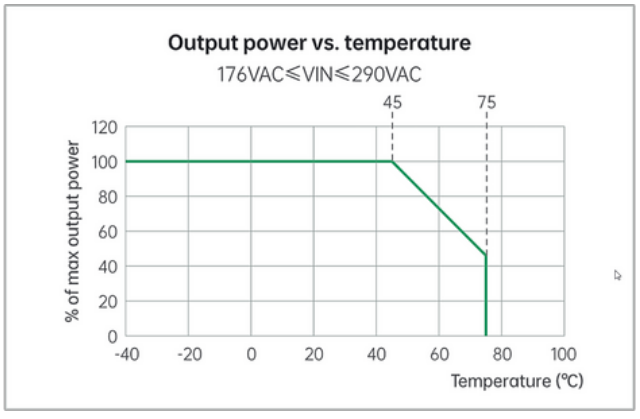
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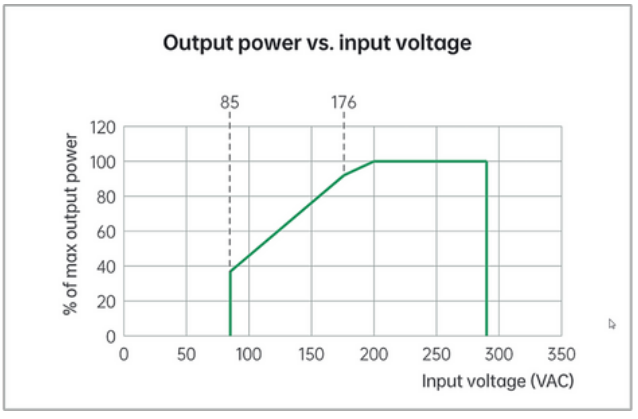
Contact details can be found on: **www.harmer-simmons.com**

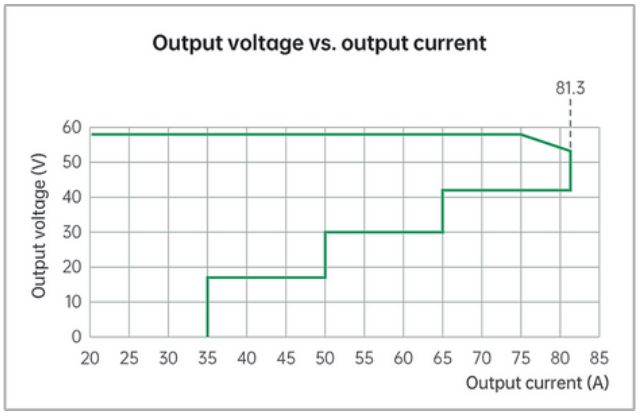
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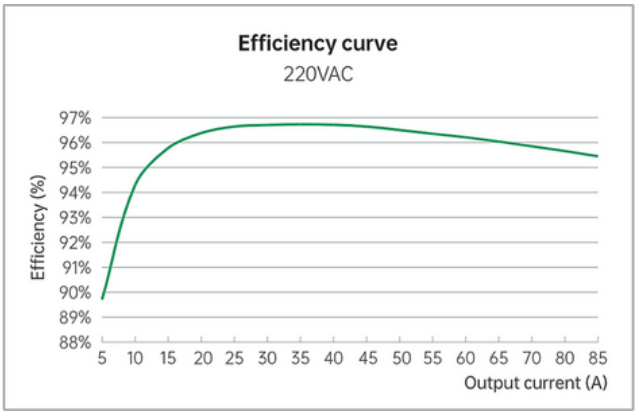
SPECIFICATIONS

AC Input		DC Output	
(Nomina)	110VAC/220VAC	**Output Voltage**	-42 to -58VDC, rated: -53.5VDC
Input Voltage Range	85 to 290VAC	**Peak Efficiency**	>96.5%
Max Input Current	26A	**Maximum Capacity**	4350W
Input Frequency	45 to 65Hz	**Maximum Output Current**	81.3A
Power Factor	≥0.99 (220VAC @ 20% to 100% load)		
THD	<3% @ ≥50% load		
Control and Monitor		**Environment**	
Communication Protocol	CAN	**EMC**	EN55032 class B; EN55035; IEC61000-3-2; IEC61000-3-12
LED	Green-normal; Yellow-alarm; Red-fault	**Safety**	UL62368-1; EN62368-1; IEC62368-1









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