CORDEX® HP 1.2KW

48VDC MODULAR SWITCHED MODE RECTIFIER

OVERVIEW

High performance compact 25A rectifier for 48Vdc telecom application

93.9% efficiency for reduced OPEX and carbon footprint

Extended temperature range (-40 to 80°C) enabling to deliver full rated output power up to 65°C for installation in harsh outdoor and indoor environments

1RU x 2RU footprint for multiple mounting options

High power density (21.8W/in3) yields more space for revenue generating equipment

Wide AC input range for a variety of global installation requirements

Cordex® High-Performance rectifiers make a proven, reliable platform even better, with significant advancements in efficiency and performance.

In a compact, fan-cooled design, HP rectifiers open the possibility to wider ranges of applications and immediate Opex/Capex savings, reducing total cost of ownership and impact on the environment.

The Cordex HP 1.2kW is a perfect solution for small 48Vdc power applications such as customer premise, xDSL, FTTx, distributed node B, and microwave. With a high operating efficiency and high temperature operation, CXC HP series rectifiers are also ideal for harsh outside plant enclosure installations.

Local and remote setup, adjustment and control is a simple single-step process with Cordex CXC HP system controllers. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.

CORDEX® CXRF-HP 1.2KW MODULAR SWITCHED MODE RECTIFIER

ELECTRICAL

Input Voltage:	Nominal: 176 to 276Vac Extended (high): 277 to 300Vac (de-rated power factor) Extended (low): 90 to 175Vac (de-rated output power)
Input Current:	Nominal: 7.4A max 90 to 132 Vac: 6A max Input frequency: 45 to 70V
Power Factor:	>99%
THD:	<5% @ nominal input voltage
Efficiency:	>93.9%
Output Voltage:	42 to 58Vdc
Output Power:	Nominal AC Input: 1,200W 110 to 132 Vac: 600W (de-rated lineary to 491W @ 90 Vac)
Output Current:	Nominal AC Input: 22.2A @ 54V (25A max @48V) 110 to 132 Vac: 12.5A (de-rated lineary to 10.2W @ 90 Vac)
Load Regulation:	Static: <±0.5% Dynamic: <±1% for 40 to 90 to 40% load step, 2ms recovery time
Line Regulation:	Static: <±0.1% Dynamic: <±1% for any change within rated limits
Wide Band Noise:	<30mVrms <150mVp-p
Psophometric Noise:	<2mV

PERFORMANCE / FEATURES

Indicators:	AC mains OK – green LED DC output OK – green LED Module alarm – red LED
Cooling:	Fan cooled
Adjustments (via CXC HP Controller):	Float and equalize voltage Battery test voltage High and low voltage alarms High voltage shutdown Current limit Start delay time Slope %
Protection:	Current limit/short circuit Input/output fuses Output high voltage shutdown Output power limiting Thermal foldback/shutdown Input transient AC low line foldback/shutdown AC high voltage shutdown

MECHANICAL

Dimensions (H x W x D)	41.4 x 84.4 x 256.8mm 1.6 x 3.34 x 10.11in
Weight:	1.23kg (2.7lbs)

ENVIRONMENTAL

Temperature:	Operation: -40 to 80°C (-40 to 176°F) (full rated output up to 65°C/149°F) Storage: -40 to 85°C (-40 to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 3,000m (-1,640 to 9,840ft)
Heat dissipation:	<308 BTU per hour/90W

STANDARDS AND CERTIFICATION

Safety:	CSA C22.2 No 60950-1-03 CE marked
EMC	ETSI 300 386 Emissions: CFR47 (FCC) Part 15 Class B ICES-03 Class B, EN55022 (CISPR 22) Class B, C-Tick (Australia), EN 61000-3-2, EN 61000-3-3 Immunity: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11 ANSI/IEEE C62.41 Cat B3
NEBS/Telcordia	GR-1089-CORE GR-63-CORE

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