

3.1kW

24Vdc Modular Switched Mode Rectifier



The Sol Series Cordex rectifiers bring advanced technology to the DC power industry. Innovative engineering combines the best in efficiency and reliability meeting the power requirements for a variety of system applications.

The 24Vdc Sol Series Cordex 3.1kW rectifier has extremely high density providing the most power in the least amount of space. A compact 4RU shelf accommodates six rectifiers per 23" shelf and five rectifiers per 19" shelf.

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

- + Available in 130A @ 24Vdc
- + High power density, over 21kW per 23" shelf
- + Power limiting and wide range AC input
- + Compliant with the stringent EMI immunity requirements for power station and substation environments
- + High efficiency and power factor correction
- + Hot swappable, 4RU ultra compact design



3.1kW

24Vdc Modular Switched Mode Rectifier

Electrical	
Input voltage:	
Nominal:208 to 277Vac	
Operating:176 to 312Vac	
Extended:176 to 90Vac (de-rated power)	
Input frequency: 45 to 70Hz	
Power factor:>0.99 (50 to 100% load)	
THD:<5%	
Efficiency:>90%	
Output voltage: 21 to 29Vdc	
Output power:3100W continuous/module	
Output current:	
Load regulation:< ±0.5% (static)	
Line regulation:< ±0.1% (static)	
Transient response: ±2% for 50 to 100% load step,	
2ms recovery time	
Noise:	
Voice band:<32dBrnC	
Wide band:<30mV RMS (10kHz to 10MHz)	
<150mVp-p (10kHz to 100MHz)	
Psophometric:<1.0mV	
Acoustic:<60dBa @ 1m (3ft)	

Mechanical

Dimensions:	
mm:	160H x 87W x 300D
inches:	6.3H x 3.4W x 11.8D
Weight:	4.6kg (10lbs)

Agency Compliance

Safety:	CSA C22.2 No 60950-1-03
	UL 60950-1 1st edition
	CE marked
	IEC/EN 60950-1
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, 3-3
Immunity:	EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11
	ANSI/IEEE C62.41 Cat B3
	IEC TS 61000-6-5 Immunity for power
	station and substation environments
NEBS:	GR-1089 CORE
	GR-69 CORE

Environmental

lemperature:	
Standard:	40 to 65°C (-40 to 149°F)
Storage:	40 to 85°C (-40 to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	500 to 4000m (-1640 to 13120ft)
Heat dissipation:	<1176 per hour

Performance/Features

res
. AC mains OK — green LED
Module OK — green LED
Module fail — red LED
CAN interface to CXC
. Float voltage
. Equalize voltage
High/low voltage alarm
High voltage shutdown
Current limit
Slope
Start delay
Current limit/short circuit
Start delay
Input/output fuses
Output high voltage shutdown
Power limiting
Thermal foldback/shutdown
Input transient
AC low line foldback shutdown

Shelves

>19/23" shelf (5 modules)

Dimensions:					
mm:	 177	H x 442\	W x 389	D	
inches:	 6.9F	1 x 17.4	W x 15.3	3D	
Weight:	 8.5k	g (19lbs	5)		
Mounting:	 Fits	19" rack	flush/c	enter m	nount
	Fits	23" rack	center	mount	only

>23" shelf (6 modules)

Dimensions:	
mm:	177H x 530W x 389D
inches:	6.9H x 20.8W x 15.3D
Weight:	9.5kg (21lbs)
_	Fits 23" racks only flush/center mount
Connections	
Input:	Box type terminal block
	6 to 16mm ² (10 to 6AWG)
Output:	Bus adapters with 3/8" studs on 1" centers
Chassis ground:	Compression lug
	6 to 16mm2 (10 to 6AWG)
CAN communication:	RJ 12 offset





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