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Cordex® PSU

Web Enabled, DIN Rail/Wall Mount
Power Supply Unit



- Clean and reliable DC power supply for critical loads available in two options: 24V/400W or 48V/650W
- Internet ready and remotely accessible for complete and cost effective system and site monitoring
- Advanced battery charging, monitoring and testing to ensure sufficient reserve power availability and prolonged battery life
- Configurable platform with I/O's for site monitoring, user-definable alarms, data logging and control
- Extended temperature range for installation in harsh outdoor environments
- Wide AC input operating range for world wide installation requirements

The Cordex® PSU (power supply unit) is an integrated, fully-featured DC power system in a compact form factor.

It is designed to provide power to critical loads while enabling remote site monitoring and delivering critical information on demand. The PSU supplies reliable and low output ripple current along with short circuit, over voltage, over temperature and over load protection. It also features advanced battery charging, monitoring and testing functionality. Two temperature, two digital and one analog inputs can be used for monitoring system alarms such as intrusion detection or equipment malfunction.

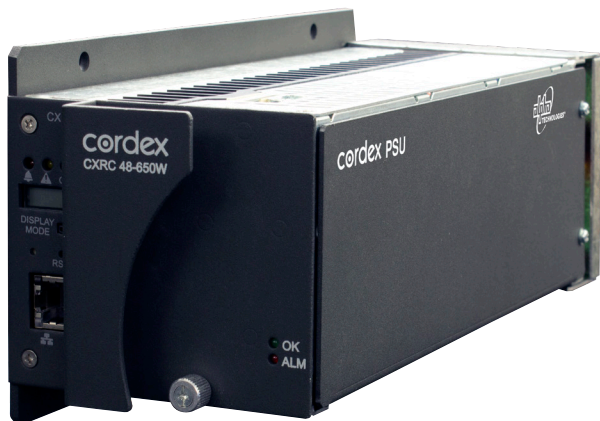
The integrated CXCi HP controller offers comprehensive local and remote control and monitoring, including a web server, providing easy set up using a standard web browser. SMTP features 'enable alarm' condition settings and multiple automatic notification options by e-mail to a computer, server or smartphone. Sites without internet access can use the integrated CXCi HP controller as an advanced standalone data logging system, allowing the capture of data from multiple inputs such as AC/DC voltages, load/battery current, and cell voltage/temperature. The CXCi HP controller captures and retains 90 days' statistical data and 500 alarm events, ready for download to a laptop for site history file and analysis of system performance, power system details, thermal performance of outdoor enclosures and failure conditions.

Cordex® PSU Web Enabled, DIN Rail/Wall Mount Power Supply Unit

24V-400W P/N: 0100011-402

48V-650W P/N: 0100012-402

Electrical		
Models	48V/650W	24V/400W
Input Voltage:	Operating: 176 to 320VAC Extended: 90 to 176VAC (de-rated power)	Operating: 90 to 320VAC
Input Frequency:	45 to 65Hz	45 to 65Hz
Current:	5.0A max	4.9A max
Power:	650W	400W
Power Factor:	>0.99% (208-240Vac)	>0.99% (208-240Vac)
THD:	<5%	<5%
Efficiency:	>90% (50-100% Load Nominal Voltage)	>88% (50-100% Load Nominal Voltage)
Output Voltage:	42 to 58VDC	20 to 30VDC
Output Current:	13.5A max	14A max
Load Regulation:	Static: <±0.5% Dynamic: <±2% for 50 to 100% load step 2ms recovery time	Static: <±0.5% Dynamic: <±5% for 50 to 100% load step 2ms recovery time
	Line Regulation:	Static: <±0.1% Dynamic: ±1% for any change within rated
Noise:	Voice Band: <32dBmC Wide Band: <10mV RMS (to 10MHz) <150mV pk to pk (to 100MHz)	Voice Band: <32dBmC Wide Band: <10mV RMS (to 10MHz) <100mV pk to pk (to 100MHz)
	Psophometric:	<1mV RMS
Mechanical		
Dimensions:	mm: 117H x 281W x 101D inches: 4.6H x 11.1W x 3.98D	
Weight:	3kg (6.6lbs)	
Mounting:	Panel DIN rail (standard TS-35/7.5 or 15 Mounting Rail)	
Connections:	AC, Load & Battery: Screw terminal 4mm ² (#12AWG) Alarms & I/O's: Screw terminals 2.5mm ² to (#14AWG)	



Environmental	
Temperature:	Operation: -40 to 50 °C (-40 to 122 °F) Extended: -40 to 70 °C (-40 to 158 °F), derated power Storage: -40 to 85 °C (-40 to 185 °F)
Humidity:	0 to 95% RH non-condensing
Altitude:	-500 to 3000m (-1640 to 9840ft)
Heat Dissipation:	<202 BTU per hour
Performance / Features	
GUI:	
<ul style="list-style-type: none"> Embedded web based GUI accessed via Ethernet using internet browser 	
LED Indicators:	
<ul style="list-style-type: none"> AC mains OK — green Minor alarm — Yellow Major alarm — Red 	
System Features:	
<ul style="list-style-type: none"> User configurable alarms User configurable signals Downloadable software & firmware upgrades Lithium battery backup for real time clock 	
Log Files:	
<ul style="list-style-type: none"> Daily statistics: Min., max. and average on analog input channels with date and time stamp Battery current, rectifier current and AC mains voltage for last 90 days Event log: All events such as alarms, power on, change of state on digital inputs or other events Battery log: Battery health history on last 20 discharges with time of discharge and battery capacity Data logging: Up to 16 user configurable logs of all system signals including Smart Peripherals 	
Battery Features:	
<ul style="list-style-type: none"> Temperature compensation Manual, auto & periodic equalize Dynamic charge current control Battery runtime & capacity indication Battery low capacity warning Auto or manual battery test mode 	
Adjustments:	
<ul style="list-style-type: none"> Floot and equalize voltage Battery test voltage High and low voltage alarms High voltage shutdown Current limit Start delay time Slope % 	
Protection:	
<ul style="list-style-type: none"> 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 	
Distribution:	
<ul style="list-style-type: none"> 75A Battery Shunt 20A Low Voltage Disconnect LVBD (may be disabled with jumpers) 	
Cooling:	
<ul style="list-style-type: none"> Natural Convection 	
Communication Ports:	
<ul style="list-style-type: none"> CAN: Smart Peripherals Ethernet: 10/100 Base-T for TCP/IP/SNMP/Email features 	
System I/O:	
<ul style="list-style-type: none"> Alarm relays: 3 Temperature inputs: 2 Digital inputs: 1 Voltage input: 1 	
Agency Compliance	
Safety:	CSA (22.2 No 60950-1-03) CE Marked
EMC:	ETSI 300 386-2
Emissions:	CFR47 (FCC) Part 15 Class A 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 CatB3



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