Cordex PSU

Web Enabled, DIN Rail/Wall Mount Power Supply 24V/400W or 48V/650W



- > 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

Alpha's Cordex PSU 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+ controller offers comprehensive local and remote control and monitoring, including a web server, providing easy set up using a standard Windows Internet Explorer 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+ 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+ 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 Power Supply Unit, Web Enabled, DIN Rail/Wall Mount Power Supply

24V-400W model P/N: 0100011-002, 48V-650W model P/N: 0100012-002

FLECTRICAL	3011 002, 101 03011 1110	del1714.0100012 002	6 . 5 .	
ELECTRICAL			System Features:	User configurable alarms User configurable signals
	>48V/650W	>24V/400W		Downloadable software & firmware upgrades
Input voltage:	>40V/030VV	>24V/400VV		Lithium battery backup for real time clock
Operating:	176 to 320Vac	90 to 320Vac	Log Files:	,,
Extended:	90 to 176Vac		Daily statistics:	Min., max. and average on analog input
	(de-rated power)			channels with date and time stamp Battery
Input frequency:	45 to 70Hz	45 to 70Hz		current, rectifier current and AC mains voltage
Current:	5.0A max	4.9A max		for last 90 days
Power:	650W	400W	Event log:	All events such as alarms, power on, change
Power factor:	>0.99%	>0.99%	8 1	of state on digital inputs or other events
THD:	<5%	<5%	Battery log:	Battery health history on last 20 discharges with time of discharge and battery capacity
Output voltage:	>91% 42 to 58Vdc	>88% 20 to 29Vdc	Data logging	Up to 16 user configurable logs of all system
Output current:	13.5A max	14A max	Data logging:	signals including Smart Peripherals
Load regulation:	Static <±0.5%	Static <±0.5%	Battery Features:	Temperature compensation
Loud regulation	Dynamic <±2% for 50	Dynamic <±5% for 50	buttery reatures	Manual, auto & periodic equalize
	to 100% load step	to 100% load step		Dynamic charge current control
	2ms recovery time	2ms recovery time		Battery runtime & capacity indication
Line regulation:	Static <±0.1%	Static <±0.1%		Battery low capacity warning
	Dynamic ±1% for any	Dynamic ±1% for any		Auto or manual battery test mode
	change within rated	change within rated	Adjustments:	Float and equalize voltage
Noise:				Battery test voltage
Voice band:	<32dBrnC	<32dBrnC		High and low voltage alarms
Wide band:	<10mV RMS	<10mV RMS		High voltage shutdown
	(to 10MHz)	(to 10MHz)		Current limit
	<100mV pk to pk (to 100MHz)	<100mV pk to pk (to 100MHz)		Start delay time Slope %
Psophometric:	<1mV RMS	<1mV RMS	Protection:	Current limit/short circuit
r soprioritetre:	\1111V 111V15	CITITY TUVIS	Trocection:	Input/output fuses
MECHANICAL				Output high voltage shutdown
				Output power limiting
Dimensions:				Thermal foldback/shutdown
mm:	117H x 281Wx 101D			Input transient
inches:	4.6H x 11.1W x 3.98D			AC low line foldback/shutdown
Weight:	3kg (6.6lbs)			AC high voltage shutdown
Mounting:	Panel DIN rail (standard TS-35/7.5 or 15 Mounting Rail)		Distribution:	10A Battery Shunt
				20A Low Voltage Disconnect LVBD
Connections:	. Screw terminal 4mm ² (#12AWG)		Cooling	(may be disabled with jumpers) Natural Convection
AC, LOAG & Battery			Cooling: Communication Ports:	Natural Convection
Alaillis & 1/O 3	Sciew terminals 2.5mm to (#147.WG)		CAN:	Smart Peripherals
ENVIRONMENTAL			Ethernet:	10/100 Base-T for TCIP/SNMP/Email features
			System I/O:	
Temperature:			Alarm relays:	3
Operation:	-40 to 50°C (-40 to 122°I	F)	Temperature inputs:	2
Extended:	-40 to 70° C (-40 to 158° F), derated power		Digital inputs:	2
Storage:	-40 to 85°C (-40 to 185°F)		Voltage input:	1
Humidity:	0 to 95% RH non-conde	•		
Altitude:	-500 to 3000m (-1640 to 9840ft)		AGENCY COMPLIANCE	
Heat Dissipation:	<110 BTU per hour		C C .	CCA C22 2 N C00 F0 4 02
PERFORMANCE/FEATURES			Safety:	CSA C22.2 No 60950-1-03
FEMI ONWANCE/TEATORES			EMC:	CE Marked ETSI 300 386-2
User Interface:			Emissions:	CFR47 (FCC) Part 15 Class A
GUI:	Embedded web based	GULaccessed	LIIII3310113	EN 61000-3-2, 3-3
	via Ethernet using inte		Immunity:	EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11
LED Indicators:	AC mains OK — green		,	ANSI/IEEE C62.41 CatB3
	Minor alarm — Yellow			
	Major alarm — Red			