

# 380VDC EcoTower ET 380 DC-DC Converter Power System

Integrating state-of-the-art, high efficiency, switch-mode rectifier technology with Eltek's feature-rich Smartpack2 control and monitoring unit, the high-performance EcoTower system provides 380VDC – 48VDC power conversion for Data Centers using Flatpack2 HE DC-DC Converters. The power system offers configurations up to 60KW.



## 380VDC EcoTower ET380

DC-DC Converter System, 60KW

Doc 370081.DS3 - rev1

### **APPLICATIONS**

- Data Centers
- Telco Central Offices
- Cable transport centers
- Co-Located facilities

#### **CONFIGURATIONS**

 Can be used with a variety of additional -48V distribution panels

#### **CONVERTER SECTION**

- Five 4-position converter shelves
   Twenty 3000W converters max
- Redundant 250A input breakers
- Internal DC bus capability 1200A
- Converter bay delivers up to 1200A
- Input SPD

#### **DISTRIBUTION**

-48V Load distribution provided

#### **CONTROL SYSTEM**

- Based upon distributed Smartpack 2 control system
- Interactive display on main bay

#### **KEY FEATURES**

- VERSATILITY
- SCALABLE
- HIGH EFFICIENCY
- SAFETY
- RUGGED DESIGN



Flatpack2 HE Converter

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MECHAN	IICAL	
Dimensions		26" W x 84" H x 24" D (26.5" D with doors)
Weights	System	Without converters installed, the system weighs more than 500 lbs (227 kg).
	Converter	4.19 lbs. (1.9 kg) each
Clearances		Zero clearance needed left or right of unit. 24" suggested minimum rear clearance for access for connections and maintenance. 26" minimum front clearance for access for connections and maintenance. Cable egress from top rear.
ELECTRI	CAL	
Input	Voltage Rated Range	Full power input : 260-400 VDC
	Nominal Full Power Current Rating (per converter)	12.3 ADC max at 260 Vdc input and full load
Output	Voltage Range	50-55 VDC (54.5 VDC Rated)
	Maximum Current per converter	56.1A @ 54 VDC at nominal input
	Ripple and Noise	< 150 mV peak to peak, 30 MHz bandwidth,
	Peak Efficiency	98.2%
DISTRIB	JTION OPTION	
DC Distribution Panels		12 position high-capacity breakers, and/or 24 position plug-in breakers, and/or 6 position TPL fuse panel
CONNEC	CTIONS	
DC Input		Two 250Amp two-pole circuit breakers
Chassis Ground		4 positions for two-hole lug, 1/4" on 5/8" center
Electrical (C.O) Ground		Positions for two-hole lug, 3/8" on 1" center, max width of 2.25"
DC Output		Shunt-monitored distribution section, including ground return window. Two-hole connections provided for each distribution device
ENVIRO	NMENTAL	
Operating Temperature		-40° to +40° C (-40° to +104° F), de-rating to +65°C (149°F)
Storage Temperature		-40° to +70° C (-40° to +158° F)
Relative Humidity		0-95%, non-condensing
Cooling - Rectifier		One fan, front-to-rear airflow
Acoustic Noise		< 65dBA
TCP/IP		GUI WebPower interface, using standard Web Browser, and SNMP
INTERFA	CE	
Alarm Relays		Six configurable form-C output relays Six configurable digital inputs
APPLICA	BLE STANDARDS (Pendin	g)
Electrical safety		IEC 60950-1, CSA/UL 60950-1
EMC		GR-3160-CORE
Environment		GR-3160-CORE

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Specifications are subject to change without notice.