

# EcoTower 2

## DC 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 can be configured to use either single-phase Flatpack2 HE or three-phase DPR-6000 rectifiers.



# EcoTower 2

## (DC Power Supply System)

Doc 370124.DS3 – rev1

### APPLICATIONS

- Medium to Large Sites
- Simplified Engineering
- High Capacity MSO/CSO
- Central Office
- Co-locates
- Private Networks
- CATV



### KEY FEATURES

The EcoTower delivers up to 2400A and can be equipped with as many as four different DC distribution panels in a single cabinet

- ADVANCED FUNCTION SMARTPACK2 TOUCH CONTROLLER – LOCAL, INTERNET, NETWORK ACCESS
- USES EITHER FLATPACK2 HE OR DPR-6000 RECTIFIERS
- UP TO 2400 AMPS DC OUTPUT
- FRONT-ACCESS DESIGN
- LIGHTWEIGHT MODULE COMPONENTS
- CABLE MANAGEMENT BAR
- INTERNAL RETURN BUS
- EIGHT BATTERY CONNECTIONS
- SECONDARY DISTRIBUTION CABINET AVAILABLE

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		FLATPACK@ HE 48V/3000W, 1200A OR 2400A CONFIGURATION	DPR-6000, 1200A OR 2400A CONFIGURATION
<b>MECHANICAL</b>			
Dimensions		26" W x 84" H x 26.5" D	26" W x 84" H x 26.5" D
Weights	System	Approx. 500 lbs (227 kg) without rectifiers.	Approx. 500 lbs (227 kg) without rectifiers
	Rectifier	4.19 lbs (1.9 kg) each	11 lbs (5 kg) each
Clearances		Zero clearance needed below, left or right of unit. 24" suggested rear clearance for proper airflow and access. Cable egress from top.	Zero clearance needed below, left or right of unit. 24" suggested rear clearance for proper airflow and access. Cable egress from top.
<b>INPUT</b>			
Nominal Voltage Range		208 / 240 VAC	208 / 480 VAC, +/-10%, 3-phase
Current (per rectifier)*		19.2 A <sub>rms</sub> max at 176 VAC input and full load	21 / 12 A <sub>rms</sub> max at nominal input and full load
Nominal Frequency		50 / 60 Hz	50 / 60 Hz
Voltage Range		43.5 – 58.0 VDC (53.5VDC Nominal)	42 – 58 VDC (53.5 VDC Nominal)
<b>OUTPUT</b>			
Power*		3kW at nominal input per rectifier (x20 or x40 rectifiers)	6kW at nominal input per rectifier (x12 or x20 rectifiers)
<b>DISTRIBUTION OPTIONS</b>			
Up to Seven DC Distribution Panels in Four Different Zones		12 position high-capacity breakers, and/or 26 position plug-in breakers, and/or 6 position TPL fuse panel Load return bar for up to 4 distribution panels External Load return available Optional LVLD	
<b>CONNECTIONS</b>			
AC Input		Individual, dual, single or three-phase inputs, 176 – 277 VAC (3kW rectifiers) 185 – 250 VAC (2kW rectifiers)	Multiple three-phase AC feeds, 208 or 480VAC three-phase (depending on rectifier deployed)
CO Ground		Position for two-hole lug	Position for two-hole lug
Battery		Shunt-monitored bus with eight battery connection points. Optional LVBD	Shunt-monitored bus with eight connection points Optional LVBD
<b>ENVIRONMENTAL</b>			
Operating Temperature		–40° to +45° C (–40° to +113° F); see rectifier datasheet for more details	
Storage Temperature		–40° to +70° C (-40° to +158° F)	
Relative Humidity		0 – 95%, non-condensing	
Cooling - Rectifier		Fan-cooled, front-to-rear airflow	
TCP/IP		GUI WebPower interface, using standard web browser, and SNMP	
<b>INTERFACE</b>			
Alarm Relays		Six configurable form-C output relays; six configurable digital inputs	
<b>APPLICABLE STANDARDS</b>			
Electrical safety		IEC 60950-1, CSA/UL 60950-1	
EMC / Environment		GR-1089-CORE / GR-63-CORE	

\*Refer to rectifier datasheet for more details.

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Specifications are subject to change without notice