



an EnerSys company

# SMART BDFB

## Secondary Distribution System



- Smart secondary distribution solution for CO, MTSO, Data Center and Cable Headend facilities
- Monitoring and alarming via IP/SNMP connectivity
- Centralized monitoring via CAN connection enabling a single IP connection to all BDFB's at a facility
- Enhanced cable management using the industry's first wider and deeper design
- Improved primary cable access via Alpha's termination option
- Flexible 2, 4, 6 or 8 feed options
- Each panel consists of 20 secondary load positions
- Flexible circuit breaker and TPS fuse options

**The Smart BDFB is a high capacity secondary distribution system which combines Alpha's successful BDFB platform with the capability to monitor and alarm system parameters via IP/SNMP capabilities.**

Alpha Technologies' Smart BDFB is unique as it has the capability to be monitored from a centralized controller, either residing in the power plant or as a standalone unit, essentially enabling the operator to monitor all BDFBs using a single IP connection.

The system has been designed based on standard rear access for input feeder cable and secondary load cable terminations. It can be configured either as a dual, or up to an eight (8) feed BDFB (with each individual panel providing up to twenty (20) secondary load positions).

The Smart BDFB 8x800 provides a total system capacity exceeding 5000A (continuous rating), distributed amongst 8 panels, enabling customers to obtain full utilization of the current (from the primary power plant). Optional cable management bus kits significantly improve cable management by providing additional flexibility while cabling the BDFB.

# Smart BDFB 8x800A Secondary Distribution System

07/2019

P/N: Refer online to ordering guide for P/N and configurations

Electrical	
<b>System Voltage:</b>	-48V
<b>Output Current Per Load/Panel:</b>	640A (continuous rating)
<b>No. of Loads/Panel Per Bay:</b>	2,4,6 (or) 8
<b>Secondary Load Positions:</b>	20 positions per panel
<b>Over Current Protection:</b>	<ul style="list-style-type: none"> <li>• TPS/TLS Plug in bullet up to 125A</li> <li>• Single pole LEL breaker up to 125A</li> <li>• Double pole LEL breaker up to 200A</li> <li>• Triple pole LEL breaker up to 300A</li> </ul>
Distribution & Termination	
<b>Input Feeder Cable Termination Details:</b>	3/8" dia. on 1" centers (or) 1/2" dia. on 1 3/4" centers
<b>Secondary Load Cable Termination Details:</b>	1 pole are 1/4" dia. on 3/8" centers, 2 pole and 3 pole are 3/8" dia. on 1" centers
<b>Internal Ground Bar:</b>	1/4" dia. on 3/8" centers (lug adapters for 2 pole and 3 pole)
<b>External Ground Bar:</b>	21 x 1/4" dia. on 3/8" centers, 8 x 3/8" dia. on 1" centers and 7 x 1/2" dia. on 1 3/4" centers
Mechanical	
<b>Mounting:</b>	Standard boxbay mounting options
<b>Dimensions:</b>	<b>Standard Width Option:</b> mm: 2134H x 610W x 610D inches: 84H x 24W x 24D
	<b>Extended Width Option:</b> mm: 2134H x 813W x 610D inches: 84H x 32W x 24D

Environmental	
<b>Temperature:</b>	0 to 40°C (32 to 122°F)
<b>Humidity:</b>	0 to 95% RH non-condensing
<b>Elevation:</b>	-500 to 2800m (-1640 to 9186ft)
System Level Alarm & Control	
<ul style="list-style-type: none"> <li>• Remote monitoring of Voltage and current via IP/SNMP connection</li> <li>• Remote monitoring of over current and breaker trip alarm parameters via IP/SNMP connection</li> <li>• Local monitoring of voltage per panel</li> <li>• Local monitoring of current for panels with shunts</li> <li>• Bay level breaker/fuse trip lamp indicator</li> <li>• Individual panel "Power" indicator</li> <li>• Individual panel breaker trip indicator</li> <li>• Alarm Relay (dry contacts)                             <ul style="list-style-type: none"> <li>- Overcurrent alarm on any panel</li> <li>- Loss of input feed alarm</li> <li>- Fuse/breaker trip alarm</li> </ul> </li> <li>• Alarm connections: 1.5mm2 (16 to 30AWG)</li> </ul>	
Options	
<ul style="list-style-type: none"> <li>• 2' and 4 1/2' cabinet extension</li> <li>• Cabinet top covers for bottom feed applications</li> <li>• Seismic anchors and washers kit</li> <li>• Isolation pad and bushing kit</li> <li>• SNMP kit</li> </ul>	
Agency Compliance	
<b>Safety:</b>	CSA C22.2 No. 60950-1

