PFE LOW VOLTAGE POWER FEED EQUIPMENT

SPELLMAN HIGH VOLTAGE ELECTRONICS CORPORATION

- ***FULL ARRAY OF DRY CONTACT CLOSURES AVAILABLE FOR REMOTE STATION ALARM MONITORING***
- ***FULLY-PROGRAMMABLE ELECTRONIC TEST LOAD CAPABLE OF DISSIPATING 5KW***
- ***ELECTRODING FUNCTIONS PROVIDED***
- ***SINGLE CABINET. REAR DOOR PROVIDED FOR SAFETY INTERLOCKING***

Spellman High Voltage Electronics, the leading independent supplier of Power Feed Equipment to the Telecom industry, has developed a new generation of Low Voltage Power Feed Equipment, (LVPFE). This proposed new LVPFE is targeted at the emerging requirements for shorter submarine cable installations, while addressing underlying markets issues such as lower cost, smaller foot print, and easier operation.

KEY FEATURES

Redundancy is provided for the converters (1+1)

Simplified sliding drawers for PFE open, grounding, test modes

Redundancy is provided for the LCU. In case of failure of LCU, the PFE will continue to operate normally

LCU contains pull-out 17˝ LCD screen, keyboard, trackball and CPU

Simplified keylock scheme ensures safety of operating personnel

Highly visible Vacuum Fluorescent Display (VFD) on each Converter displays voltage, current and modes of operation

Unique protective “trap door” barrier allows a converter or test load to be replaced safely while the PFE is still powering the cable

SPECIFICATIONS

Output Voltage:
6kV maximum rated continuous operation, 5kV nominal

Output Current:
1.2A maximum rated continuous operation, 1.0A nominal

Output Power:
5kW for 1+1 redundancy

Input Voltage:
-40.5 VDC to -60 VDC

Programming:
Full-featured programming, monitoring, alarms, diagnostics, and ramping functions provided via LCU module.

Monitoring:
Full local and remote monitoring via Ethernet connection.

Current Ripple:
10mA peak to peak of maximum output

Voltage Ripple:
0.2% peak to peak of maximum output

Current Stability:
0.1% (constant load) after a 4 hour warm up

Operating Temperature:
5 to 40°C operating

Storage Temperature:
-40 to +85°C storage

Humidity:
5% to 85%, non-condensing

Cooling:
Forced Air

Dimensions:
86.68”H x 23.64”W x 23.64”D
(2200mm x 600mm x 600mm)

Weight:
900 pounds (335.9kg)

Regulatory Approvals:
Compliant to 2004/108/EC, The EMC Directive and 2006/95/EC, The Low Voltage Directive. Also complies with: GR-63-CORE, GR-189-CORE, ETSI ETS 300 019, ETS 300 118, ETS 300 127, ETSI EN 300 132-2, ETSI EN 300 386, EN 60950.

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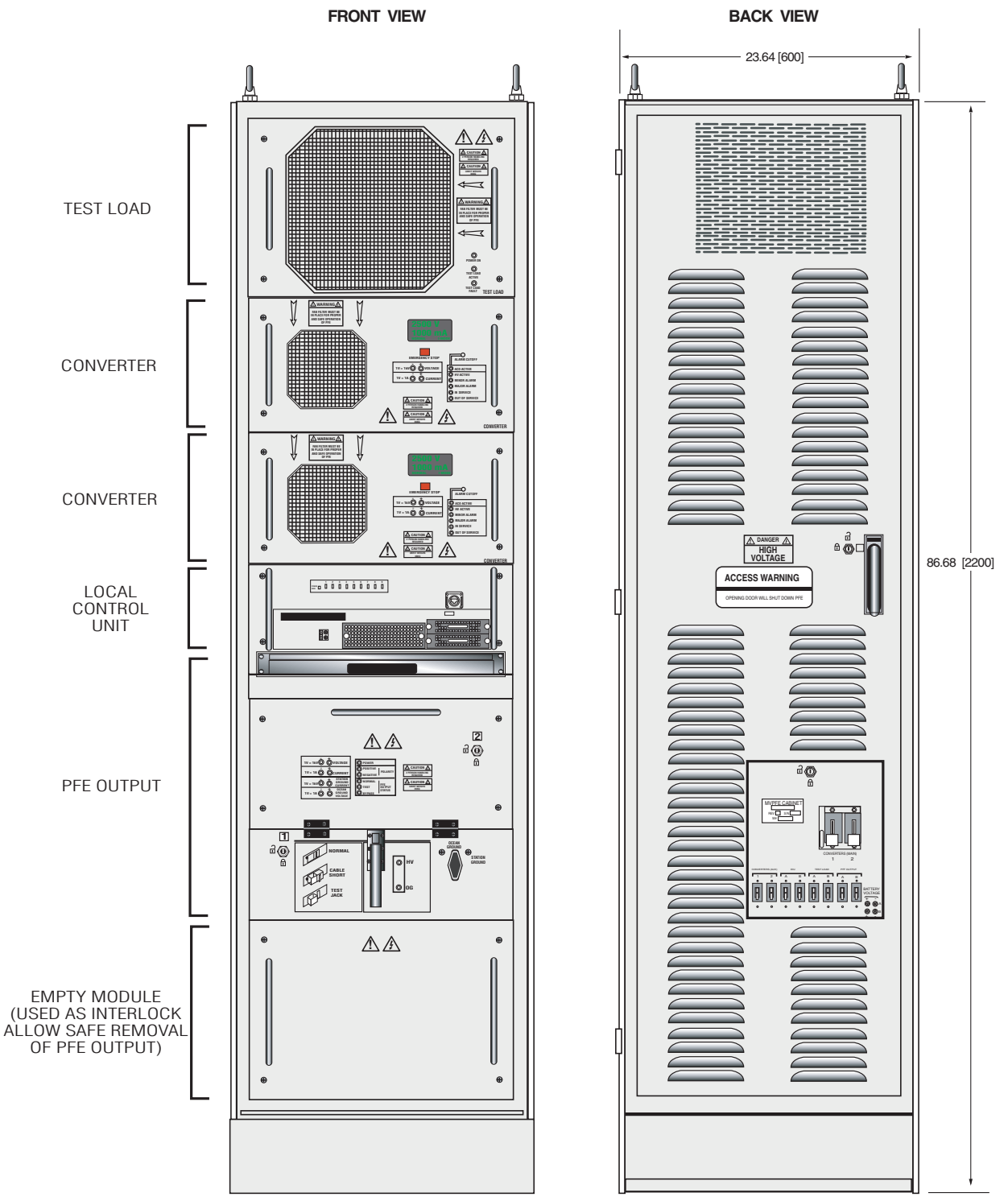
Spellman High Voltage is an ISO 9001:2008 and ISO 14001:2004 registered company

DIMENSIONS: in.[mm]



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