# PFE-HV HIGH VOLTAGE POWER FEED EQUIPMENT

SPELLMAN HIGH VOLTAGE ELECTRONICS CORPORATION



- ***6, 9, 12, 15kV Versions Available, each @ 1.5A***
- ***Full Array of Dry Contact Closures for Remote Station Alarm Monitoring***
- ***Fully-Programmable Electronic Test Load Bay Capable of Dissipating 22.5kW***
- ***Electroding Functions Provided***
- ***3-Bay Design. Rear Doors Provided for Safety Interlocking***
- ***Built-in Data Logger Functions Capture Data Every 10ms***

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

## KEY FEATURES

Redundancy is provided for the converters (n+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, mouse pad and CPU

Simplified keylock scheme ensures safety of operating personnel

Highly visible Vacuum Fluorescent Display (VFD) on the output module (OMU) and each converter displays voltage, current and modes of operation

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

## SPECIFICATIONS

**Output Voltage:**
18kV maximum rated continuous operation, up to 15kV nominal

**Output Current:**
1.8A maximum rated continuous operation, 1.5A nominal

**Output Power:**
Up to 22.5kW for n+1 redundancy

**Input Voltage:**
-40.5Vdc to -60Vdc

**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: (per bay)**
86.68”H x 23.64”W x 23.64”D
(2200mm x 600mm x 600mm)

**Weight: (per bay)**
900 pounds (335.9kg)

**Regulatory Approvals:**
Compliant to EEC EMC Directive. Compliant to EEC Low Voltage Directive. 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. Safety IEC 60950-1 E148969- (A5) (X4146, X4147, X4148, X4149, X4750)

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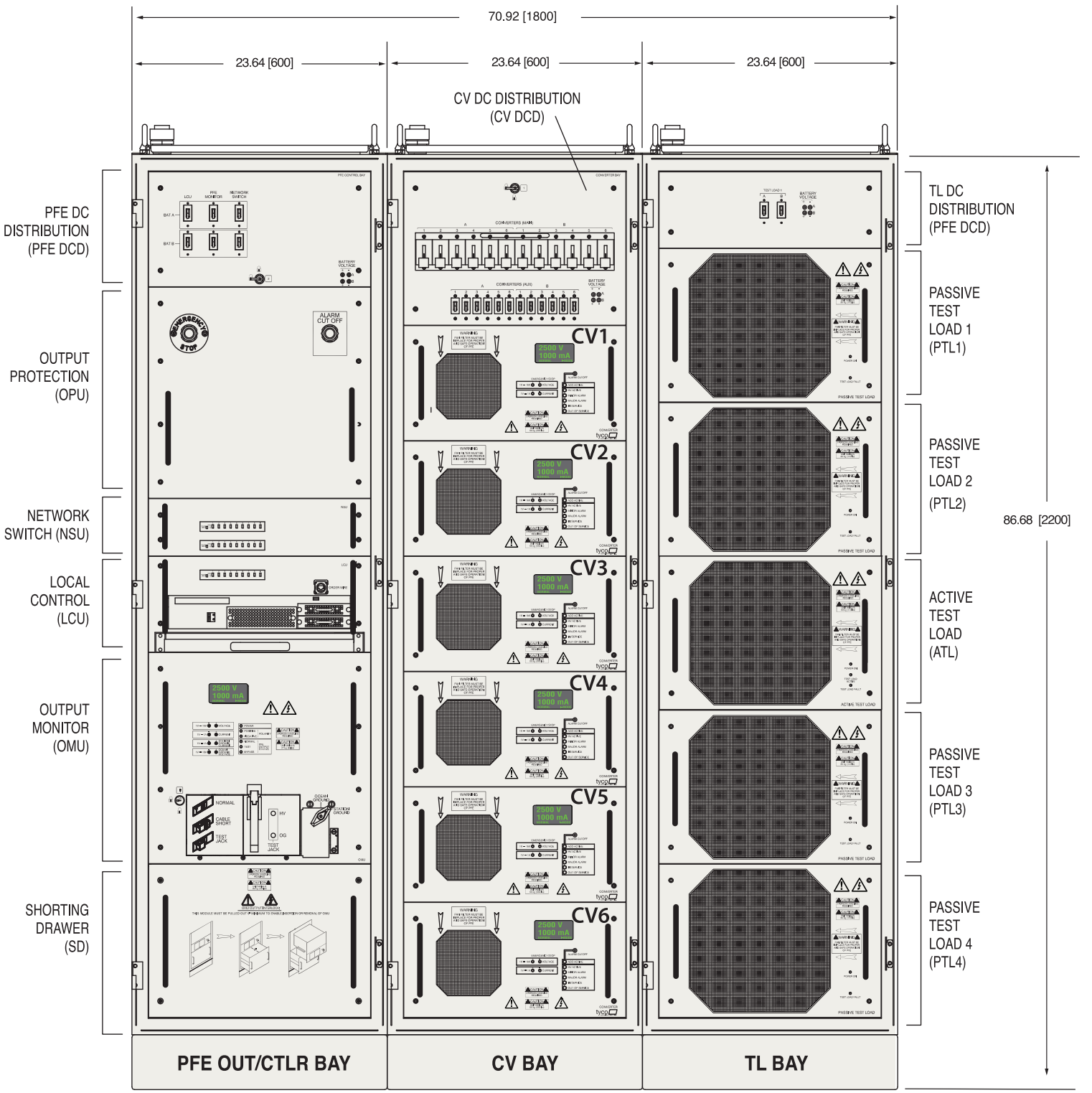
DIMENSIONS: in.[mm]

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