



### **POWER DISTRIBUTION FRAME**

Power Distribution Frame is a -48V / 320A system earthed to positive used to supply telecommunication equipment with direct current. The system is intended for use in applications where a power plant with low ohmic distribution supplies power to transient sensitive equipments, such as electronic telecom equipments. It limits the current during short circuit at any of the distributed outputs. If a short circuit occurs at any of the output, the voltage at all other outputs will remain unchanged i.e. within the specified limit. The system in its basic version is equipped with: cabinets, filter module, distribution unit, central supervisory unit, and distribution circuit breaker.

Each distribution unit can be equipped with 22 distribution circuit breakers 10A each and system can be equipped with 6 distribution units.

Thus total 132 (22 x 6) distribution outputs of -48 V can be taken out for different loads.

1. Filter Module
2. Distribution Unit
3. Distribution Circuit Breakers
4. Central Supervisory Unit

The internal wiring and connections are made so that unit can be exchanged easily.

### **FILTER MODULE**

The filter module is used to filter undesired voltages and currents so that they do not reach the supply to affect the sensitive load and the external Power Supply.

### **DISTRIBUTION MODULE**

Distribution Unit is used for the distribution of high ohmic power from the EPDF to the load.

#### **3. CENTRAL SUPERVISORY UNIT**

The central supervisory unit BMPI 901 014/1 is mounted on the door of the distribution frame cabinet and displays the voltage and current drawn by the distribution unit and all individual distribution units mounted in the cabinet. It communicates with the distribution units & filter modules equipped in the cabinet and also handle the alarms.