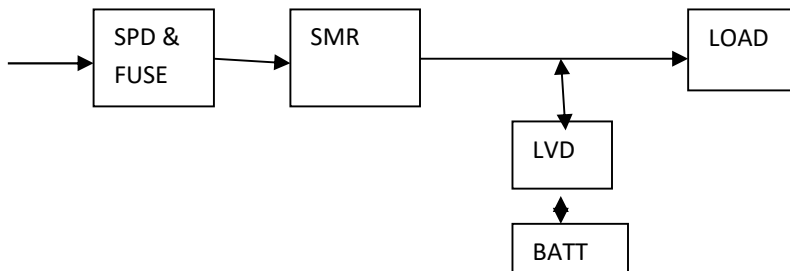


48VDC SMPS POWER PLANT



48VDC SMPS Power plant provides DC Power Supply to PDMUX and STM-1 equipments.

SMR Capacity: 25 A



Parts of SMPS Power Plant:

1. AC Distribution Board : CB is provided to supply AC voltages to Each SMR. The AC input is first FED to Fuse and SPD unit.
2. SMR – Switch Mode Rectifier – It rectifies AC into DC supply by SMPS technique.
3. LVD – Low Voltage Disconnect – Relay available inbetween Battery and Load. If battery voltage is too low, it won't allow to supply to voltage to load.
4. MCM – Monitoring and control module – to set the charger setting and it monitors the input and output voltages.
5. DC Distribution Board – It consist of DC Circuit breaker. It connects to the load.



AC Distribution Board,
SPD & Fuse



Charger Setting:

SMR – To set the SMR parameters

BATT – To set Battery parameters

AL – To view alarms

INC – Increment button to increase the value setting

DEC – Decrement button to decrease the value setting

ENT – Enter button – To change the values

To set SMR or Battery Parameter:

Press SMR/BATT button, then press INC button – The required parameters will be displayed. Then press ENT button, the value will be blinked, Press INC button to increase the Value or Press DEC button to decrease the value.

Important Settings in SMR:

- 1) SMR hi Voltage – 56 V
- 2) SMR Lo Voltage – 44 V
- 3) LVDS trip – 44 V
- 4) SMR Float Voltage – 54 V
- 5) No. of SMRs

Important Settings in BATT:

- 1) No. of Cells – 24
- 2) Battery Rated – 120AH
- 3) Batt Temp Alarm – 32°C



In prolong power supply, the battery will be drained fully. After power supply resumes, the LVD circuit will not allow the battery to charge. In this condition, make short the two terminals of the relay by using wire. Then relay will be UP and it will allow to charge the battery.