

Power Management System (PMS)

Power Management System is highly integrated, software driven system for control and monitor of AC power supply at cell base stations of telecom towers. PMS performs stabilizer, AMF function and also acts as a single point control and monitoring facility for mains, generator and site alarms.



Product Highlights

- ★ Total power management of cell sites.
- ★ Regulates mains supply and AMF functionality inbuilt.
- ★ Optimum use of cell site battery back-up and generator running time.
- ★ Wide voltage band accepting range from 240V to 485V.
- ★ Response time <10 m.Sec.
- ★ System efficiency >97%.
- ★ Lighting and surge protection.
- ★ DG parameters measurement like DG battery and DG alarms.
- ★ DG fuel saver logic.
- ★ PC interface to configure, alarm and data capture.

Optional Unique Features

- ★ Remote data capture through GPRS/GSM modem.
- ★ Mains and generator energy consumption data.
- ★ Fuel data and level management.
- ★ Extended wide range 155-485V.
- ★ Multiphase (1P-2P-3P) selection input voltage range 110-485V.
- ★ Air conditioner controller inbuilt.
- ★ Dual DG controlling Inbuilt.

Specifications

Capacity	The system is suitable for 7.5KVA, 10KVA, 12.5KVA, 15KVA, 25KVA, 37.5KVA, 40KVA, 63KVA.
Control logic	Control logic should work on 3 phase input. During the absence of mains i.e. all phases are Unhealthy/fail, it switch OFF the mains and run the DG as per the DG logic if controller selection is 3P-3P. In case of 2P healthy condition the system will run on the available 2 phases.
Voltage range	Voltage range: 240V – 485V (Phase to Phase)
IP protection	IP 21 for Indoor application IP54 for outdoor application
Time	Real time & Date programmable
Event logs	Last 500 events
Voltage protection at incoming power input	1) 3PH-3PH A) High Voltage Disconnect (HVD) 493V B) Low Voltage Disconnect (LVD) 265V 2) P-N is selected A) High Voltage Disconnect (HVD) 285V B) Low Voltage Disconnect (LVD) 165V
Protection on DG1	Provided – When the AMF is selected in manual mode the DG safety should work.
Potential Free Dry Contacts	Alarms can be extended to NOC / TOC through changeover contact (both 'NO', 'NC')

Safety Standards

- ★ EMI-EMC
 - A) Conducted test as per CISPR 22 Class A
 - B) Radiated emission test as per CISPR 22 Class A

- ★ Immunity test
 - A) ESD test IEC 61000-4-2
 - B) Immunity to conducted IEC 61000-4-6

Disturbances (Conducted RF immunity)

- ★ Surge test IEC 61000-4-5

- ★ EFT test IEC 61000-4-4

- ★ Mechanical and electrical test IEC 60950

- ★ Environmental test QM 333-B2