



SYSTEM INFRA SOLUTIONS PRIVATE LIMITED

Dual DG Automation

Dual DG Panel



DG1



DG2



Introduction Dual DGC

Dual DG Controller is designed for Telecom BSC and MSC sites needing a full proof power backup system to manage Dual DGs alternatively or as assigned to perform, having all the time tested features of our core controller matched with higher rating switch gears according to the site needs and ratings.

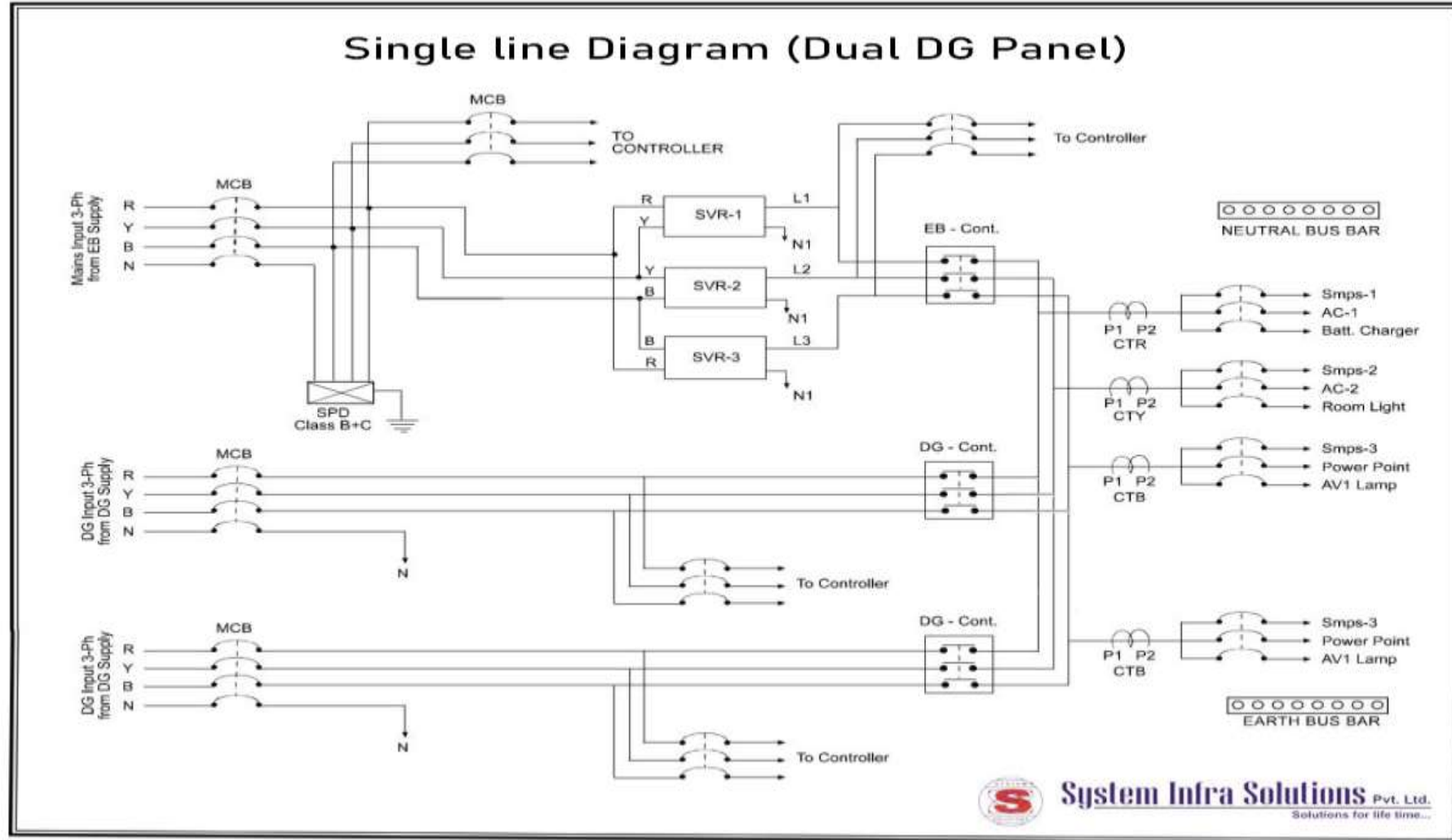
It is equipped to provide site automation and control features, making it fail proof for consistent performance.



Features of Dual DG Controller

- **EB Mains and DG parameters monitoring and control.**
- **User Settable Cyclic mode for DG's Operation.**
- **DG fuel & run time saver (DG start based on temperature and battery voltage).**
- **DG set protections through monitoring LLOP, HET/HWT, Alternator Fault, RPM and Overload.**
- **Event logs up to 5000 different events for the diagnosis of faults**
- **Up to 50 Analog and Digital Configurable parameters. 13 P/F contact output alarms.**
- **Driving up to 03 contactors for different combination of contactors for different DG Start-Stop logics.**

Dual DG Single Line Diagram





Dual DG Auto/Manual Selection

Auto mode

- Dual DG Controller operate in the auto mode and feed the power to load from mains in all possible conditions. Whenever mains fail, DG controller wait for site battery to discharge to set level or shelter temperature to rise to set level to turn on the DG and feed the power from DG to load. In the auto mode, required set of contactors get on & off automatically depending mains phases' availability. If any abnormal events happen, DG controller turns off the contactors and generate appropriate PF output alarm & lit the LED indication.

Manual mode

- Dual DG Controller can be made to operate in the manual mode to transfer the load to DG manually. There is a rocker on/off switch named as auto/manual switch in the DG Controller, which has to be turned on to push DG Controller in to manual mode. As this switch gets on DG Controller goes into self-manual mode operation and displays mode of operation in the front display. Then DG Controller waits for DG to get turned on manually by technician.



Dual DG Analog Monitoring Parameter

- 3Ø Phase Mains Input voltage
- 1Ø - 3Ø Phase DG Input voltage
- BTS battery voltage
- DG battery voltage
- Room Temperature
- Mains Run hours
- DG Run hours
- BTS Battery Run hours
- Mains frequency
- DG frequency
- Mains Energy
- DG Energy
- 1Ø - 3Ø Phase output load Current
- R-Y-B Output Load Current



Dual DG Digital Monitoring Parameter

- Smoke Fire
- Door open
- High room temperature
- DG Fail to START
- DG Fail to STOP
- DG HALF FUEL.
- DG LOW FUEL.
- DG LLOP
- High Engine Temperature
- DG Over Speed
- BTS battery low
- DG battery low
- Overload.



Dual DG Digital Alarm PF Contact

- Mains Fail
- Load on DG-1
- Load on DG-2
- DG Fail to Start
- DG Fail To Stop
- DG Common Fault
- HCT/HWT
- LLOP
- LFL
- Over Speed
- Fire/ Smoke
- Over Load
- High Room Temperature

Thank You

