

Mechanical	IP-21, 19" Rack, CNC fabricated, powder coated with RAL 7032/7035. Free standing single cabinet of 400X600mm foot print. Height 1400-2400mm
Environment	-5 to 55 Deg operational, 95% RH Non-Condensing, 2000Mtrs, QM 333-B2
EMI/EMC & Safety	Meets conducted & radiated emissions as per CISPR-22/IEC-60950
Input	3Phase, 2 Phase & 1Phase options. Auto phase selector, wide input range from 110 to 500V High voltage & Low voltage protection with RMS detection (Settable)
SVR with Isolation Transformer	Option of single & multiple SVR (LCU). Rating 5KVA to 30KVA with Upgradable options High speed RMS control with micro controller & SCR for correction speed upto 400V/s High voltage/ low voltage protection- In built(Settable) Isolation Transformer with copper shield Efficiency >97.5% Response time 10ms
Output	220V, +/- 5% / 10% options, Fully isolated, Neutral solidly earthed
AMF Functions	Fully automatic & manual AMF controls Electro-mechanically interlocked contactors Fuel saver logic- Monitors shelter temperature & BTS battery
DG protection	LLOP, HCT, Low fuel, DG battery Low, Belt Break control, Emergency Stop, Alternator failure, Idle running, Run hour/rest hour setting, contactor failure, Periodic Test, Overload
LED Display	Start, Stop, Load on Mains, Load on DG, Aviation lamp On, Alternator Fault, DG fault, Room Temp High, Smoke/Fire, LLOP, Start Fail, Stop Fail, BTS battery Low, Mains Fail, HCT, Low Fuel, DG battery Low, Overload, SVR On, SVR Fail
LCD Display/ Measurements	Load Status, AMF Status, Faults, Timers for DG/Mains/Battery operation, Input voltages, SVR Voltages, DG Voltage, Input current/Energy, Mains Energy, DG Energy, DC Energy, Output current, BTS voltage, DG battery Voltage, Room Temperature, Frequency, RPM, Fuel Level, Faults log(History), Site ID, RTC
Potential Free	LLOP, HCT, Low Fuel, Start Fail, Stop Fail, BTS Low, Mains Fail, DG On/Off, DG Fault, LCU Fail, Over Load, Room Temp High, Load on Mains, Load on DG
Battery charger	13.8V,10A SPMS type battery charger (In built or remote options)
Lightning & Surge Protection	Class –B(50KA-10/350) Lightning arrestor with Class C (320V)surge arrestor for reliable operation
Communications	RS 232/485(Modbus) for data transfer. Optional GPRS/GSM module with CMS for monitoring site status. Accepts third party RS 485 inputs for increased convenience. Provision for additional digital & analog inputs for future expansion
Data Logging/ Retrieval	1000 Last events in Memory for trouble shooting
Programmable options - Local/Remote	DG control timers (Start Delay/Crank/Warm up/Stop/Run/Rest/Cool down/Low fuel) Load Change Over timer, Mains stability timer, Aviation lamp timer/ All High/Low voltage settings, Over load setting, Fuel optimizer selection, AMF mode, Fault Disable/Enable options/ RPM selection
ACDB/Switch Gear	Input MCB/MCCB, ACDB as per customer requirement, Cable entry TOP
Service	Front Access, Modular construction for ease of maintenance