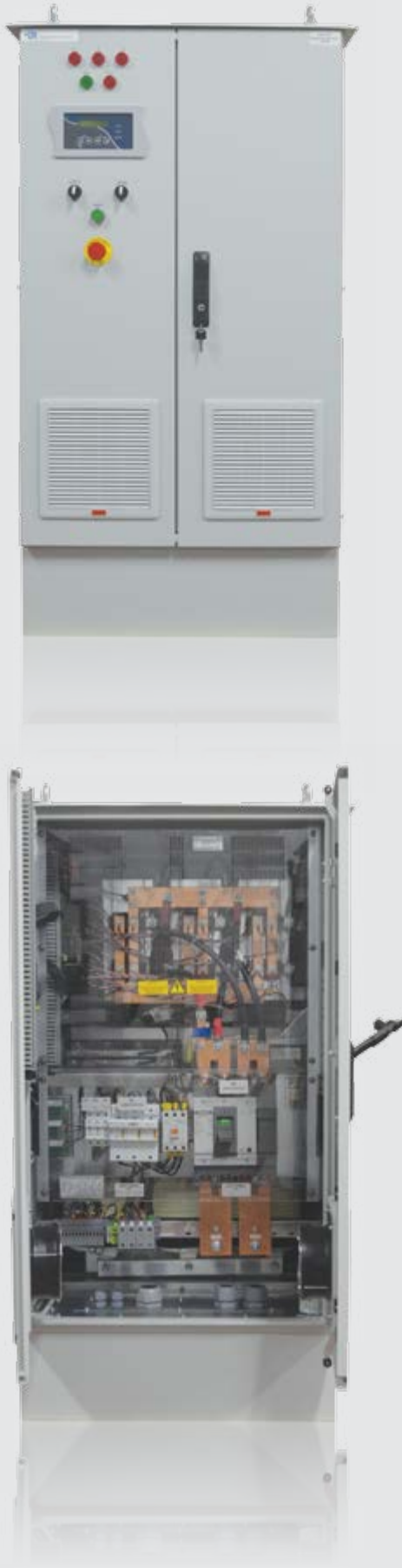


SD Series 1 phase



GENERAL SPECIFICATIONS

- ▶ 1 phase input (model dependent)
- ▶ Internal isolation transformer at input
- ▶ Full controlled conventional rectifier
- ▶ Smart control and high reliability with DSP (Digital Signal Processor)
- ▶ Float charge, equalizing charge and boost charge modes
- ▶ Automatic and manual charge modes
- ▶ Low output voltage ripple and high reliability
- ▶ 2x16 character LCD display, showing measurements, status and alarm messages
- ▶ Soft start
- ▶ Led displays for easy observation of Rectifier status. Audible alarm.
- ▶ Programmable current limitation
- ▶ Operation as voltage source or current source
- ▶ Calibration of measurements from front panel
- ▶ Language selection from front panel (English / German / Turkish / Dutch / Portuguese)
- ▶ DC Low / High, Line Failure, Over Temperature, Short Circuit protections
- ▶ Ability to program all operation parameters (password protected)
- ▶ Programable alarm relay contact outputs (4 standart, up to 16 relays as option)
- ▶ Possibility of monitor and control over RS232-RS485.
- ▶ Modbus communication.
- ▶ Log records with date and time stamp up the 200 events.
- ▶ 24 V / 48 V / 110 V / 220 V output options

OPTIONS

- ▶ Active parallel (current sharing) operation up to 4 devices
- ▶ Ability to monitor batteries and battery low alarm, even when the AC input fails
- ▶ Battery temperature compensation
- ▶ Easy observation via analog gauges (Input / Output / Battery Voltages / Currents)
- ▶ Battery test with adjustable voltage and duration
- ▶ Transducers for input / output voltage(s) / current(s) (4-20mA and 0-10V)
- ▶ 12 pulse option to limit input current distortion.
- ▶ Internal cabinet light / anticondensation heater.
- ▶ Earth leakage monitoring
- ▶ Power Factor measurement
- ▶ Input Power / kVA / kW measurement

SD Series 1 phase

| TECHNICAL SPECIFICATIONS | |
|--|---|
| MODEL | 1 PHASE INPUT |
| INPUT | |
| Nominal Voltage | 110VAC / 127VAC / 208VAC / 220VAC / 230VAC / 240VAC |
| Nominal frequency | 50 or 60 Hz |
| Transformer | Galvanically isolated |
| ITHD | <45-50% standard |
| Input Protection | Thermic Magnetic Overcurrent protection MCB, Overvoltage protection |
| OUTPUT | |
| Floating Output Voltage | 12 VDC / 24 VDC / 48 VDC / 110 VDC / 220 VDC |
| Output Voltage Adjustment | 70% to 130% of Nominal Output Voltage |
| Output Current Adjustment | 0 -100% of Nominal Output Current |
| Battery Charging Current | 0 -100% of Nominal Output Current |
| Boost Charger Voltage | 100% to 120% of Floating Output Current |
| Boost Voltage(V/C) | 2,4 lead acid Battery 1,60 NiCd Battery |
| Float Voltage(V/C) | 2,24 lead acid Battery 1,40 NiCd Battery |
| Nominal Output Current | 0 to 100A |
| Max Output Current | 110 % of nominal output current |
| Filtering | LC Filter |
| GENERAL PROPERTIES | |
| Boost Timer | 0-600 hours adjustable |
| Cooling | Fan Forced Cooling(Standard), Natural Cooling(Optional) |
| Isolation Voltage | 1500 or 3000VAC input/chassis and output/chassis |
| Efficiency at full load | >80% |
| Protection level | IP20(Standard) to IP54(Optional), (consult to EPC for IP54 to IP65) |
| Cable Entry | Front Bottom |
| Access to Batteries | Batteries and rectifier in the same cabinet with front access(Optional) |
| Circuit Breakers | Thermic-magnetic circuit breakers for input, Battery and Load (up to 100A) |
| Reset Button | Used for re-operation in case of fallure of the system. |
| Measurements | Load Voltage/Current; Battery Voltage/Current; Utility Voltage; Line Voltage; Frequency; Power Factor |
| ENVIRONMENT | |
| Acoustic Noise | 45 - 55 dB (according to Power Rating) |
| Storage Temperature | (-20 °C) - (+70 °C) |
| Operating Temperature | (-5°C) - (+50°C) |
| Relative Humidity | 0 - 95% Non-condensing |
| Max Installation Height | 1000m (-1% Power for every 100m after 1000m) Max. 4000m |
| Color | RAL7035, RAL7032 (Standard), others (Optional) |
| COMMUNICATION & PARALLELING | |
| Communication | RS232(Standard), Dry Contacts (Standard), RS485(Optional), TCP(Optional), SNMP(Optional), GSM(Optional) |
| Paralleling | Parallel Redundant (No need for extra kit for paralleling) |
| STANDARDS | |
| Standards | IEC62040-1, IEC62040-2, ISO9001, ISO14001 |
| NOTE: All specifications subject to change without notice. Consult EPC's Technical Support Department for special applications. All names used above are registered trademarks of their respective owners. | |