

SD Series 3 phase



GENERAL SPECIFICATIONS

- ▶ 3 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 / cabinet anticondensation heater.
- ▶ Earth leakage monitoring.
- ▶ Power Factor measurement
- ▶ Input Power / kVA / kW measurement
- ▶ Touch Screen

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TECHNICAL SPECIFICATIONS	
MODEL	3 PHASE INPUT
INPUT	
Nominal Voltage	3*190VAC / 3*220VAC / 3*360VAC / 3*380VAC / 3*400VAC / 3*415VAC (Phase to Phase)
Nominal frequency	50 or 60 Hz
Transformer	Galvanically isolated
ITHD	<30-35% standard, <10% on 12pulse (Optional)
Input Protection	Thermic Magnetic Overcurrent protection MCB, Overvoltage protection
OUTPUT	
Floating Output Voltage	12 VDC / 24 VDC / 48 VDC / 110 VDC / 125VDC / 220 VDC
Output Voltage Adjustment	70% to 130% of Nominal Output Voltage
Output Current Adjustment	0-100% of Nominal Output Current
Battery Charger Current	0-100% of Nominal Output Current
Boost Charger Voltage	100% to 120% of Floating Output Current
Boost Voltage(VAC)	2,4 Lead Acid Battery 1,50 NiCd Battery
Float Voltage(VAC)	2,24 Lead Acid Battery 1,40 NiCd Battery
Nominal Output Current	0 to 10000A (According to request)
Max Output Current	110% of nominal output current
Filtering	LC Filter
GENERAL PROPERTIES	
Bost Timer	0-99.9 hours adjustable
Cooling	Fan Forced Cooling(Standard), Natural Cooling(Optional)
Isolation Voltage	1500 or 3000VAC input/chassis and output/chassis
Efficiency at full load	85% to 93% (According to Capacity)
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.
ENVIRONMENTAL	
Acoustic Noise	45 - 65 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.	