



System Model 1SG2-10SLF105-120-12

Compact system offering full front accessibility.

The drop terminals on the front of the battery and the component layout of the charger allow for total front accessibility of the system; facilitating installation and maintenance.

Switchgear 2000 System

The Switchgear 2000 system is a DC supply for switchgear installations. It combines the latest battery technology with the proven performance of a highly efficient microprocessor charger design, together with optional equipment desirable for a complete installation.

Our Switchgear 2000 system is an affordable solution when considering a new switchgear DC supply requirement or replacement of an aging DC system.

System Performance

The system is also ideally designed to be used as a DC supply for instrumentation and control, lighting, fire pumps and extended back up time for UPS; capable of supplying 10.3 amps continuously for 8 hours to an end voltage of 105 VDC at 77° F/25° C. See reverse side for additional discharge rates

Simultaneous operation of 5 switchgear: This system can trip and rewind 5 typical switchgear breakers simultaneously, 140 times during an 8 hour period while maintaining a constant 3 amp load for the switchgear indicating lights and relays.

Simultaneous operation of 10 switchgear: This system can trip and rewind 10 typical switchgear breakers simultaneously, 58 times during an 8 hour period while maintaining a constant 3 amp load for the switchgear indicating lights and relays.

System and Cabinet Features

- Operating temperature range from 14°F/-10°C to 104°F/+40°C. 0 to 95% non-condensing humidity
- Easy installation for handling by forklift
- Drip Shield Top
- Instruction manuals complete with maintenance and trouble shooting procedures
- Easy maintenance: total accessibility from the front, through a hinged door
- Cabinet: CEMA/NEMA 1,2 mm cold rolled steel
- Audible noise 50 to 65 DBA (measured at 0.9 meter)
- Load terminal blocks in the charger section
- ANSI #61 light grey finish
- W - 26" / 661 mm x D - 35" / 889 mm x H - 60" / 1524 mm
- Weight - 905 lbs / 412 kg

Battery Discharge Rates

Battery Model	Time to 1.75 volts per cell											
	Min	Hours										
	1	1.5	2	3	4	5	6	7	8	9	10	
SLF 12105	419	57.1	41.6	33.2	24.1	19.0	15.6	13.3	11.6	10.3	9.27	8.40
SLF 12120	503	68.7	54.3	54.3	39.8	22.7	18.7	16	14	12.5	11.1	10

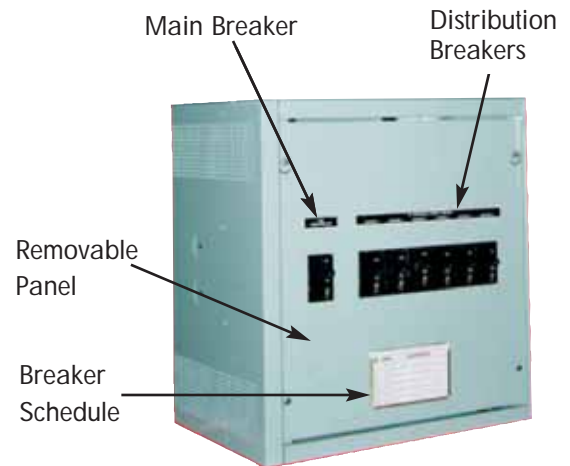


2SG2 Cabinet System,
can contain up to
30 batteries with charger



AC Disconnect
(Optional)

Distribution Panel
with up to 14 breakers
(Optional)



Standard Battery Features

- Power Battery model SLF-12105, 80 AH
- VRLA design
- Front terminal construction for safety and convenience
- Flame retardant container meeting UL 94-V2
- Absorbent Glass Mat (AGM) technology
- Grids cast of 99.7% pure lead calcium tin alloy
- 10 year life expectancy at 25°C (77° F)
- Greater than 99% gas recombination efficiency
- No watering required
- Impact resistant frame retardant polypropylene cases
- Thermally sealed case to cover bond
- Pressure release safety valves (comply with UL924)
- Oversized, low resistance intercell welds
- Cold forged terminal bushings

System Options

- NEMA 3R cabinet, with insulation, heating and cooling
- SLF 12120 batteries available
- Individual alarm contacts for each of the alarms
- AC Disconnect, in a NEMA 1 enclosure (shown above)
- DC Distribution Panel, with main breaker and up to 14 distribution breakers. (shown above)
- Modular add-on cabinets, for containing more or larger batteries, the distribution panel, etc.
- Communications package allowing remote monitoring and control of the charger.

Standard Charger Features

- Microprocessor controlled rectifier
- AC input and DC output breakers
- Voltage regulated to $\pm 0.25\%$ for line, load and temperature variations.
- Filtered to 100 mVrms
- 120/208/240 input voltage
- Current limit to 110%
- AC On light
- Temperature compensation with probe
- Float/equalize selector switch with indicating light
- Manual equalizing timer (0-255 hours) with indicating light
- AC line failure automatic equalizing timer with indicating light.
- High DC voltage shutdown
- Reverse polarity protection
- Alarm assembly with local LED's, and summary relay contact for AC failure, DC failure, High DC voltage, Low DC voltage, positive and negative ground fault.
- NEMA, CSA, FCC, UL compliant

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