



SWITCH GEAR & CONTROL

Packaged SGC Power Systems

VRLA Battery / Charger / Rack Systems designed to meet a variety of Switchgear and Control Applications while eliminating integration and compatibility issues.



SGC Battery



Micro ARE
Series Charger



Racks



FEATURES & BENEFITS

APPLICATIONS

- Electric Utility Substations
- Telephone Backup
- Microwave Sites
- Signaling Sites
- Offshore Platforms
- Mines

- Ideally suited for Switchgear & Control applications
- No electrolyte Maintenance required
- Single source for your standby power systems
- Provides 8 hours of back-up power
- Easy to order power solution – no need to search for multiple vendors
- System components matched for specified standard configurations
- Utilizes proven C&D components
- No worrying about component compatibility
- Available in 120 VDC and 48 VDC systems

- Available with optional components to provide a complete solution
- Configurable to specific customer requirements

STANDARD COMPONENTS

- SGC Series VRLA Batteries
 - 12 VDC mono-blocks for minimal inter-cell connections
- Micro ARE Series Charger/Rectifier
 - Temperature Compensation Standard
- Floor or wall mountable
- Rack Systems

STANDARD PRODUCT CONFIGURATIONS

OPTIONAL FEATURES

| Model Number | System Voltage VDC | System AH (@ 8Hr to 1.75 VPC) | SGC Battery | | Micro ARE Charger Model ¹ | Rack Model |
|--|--------------------|-------------------------------|-------------|-----|--------------------------------------|------------|
| | | | Model | Qty | | |
| 120 VDC Systems | | | | | | |
| SGCS120030R | 120 | 30 | SGC12-30 | 10 | ARE-M13012 | RBN2TEQ |
| SGCS120090R | 120 | 90 | SGC12-90 | 10 | ARE-M13016 | RBW2TEQ |
| SGCS120125R | 120 | 125 | SGC12-125 | 10 | ARE-M13025 | RBW2TEQ |
| SGCS120180R | 120 | 180 | SGC12-90 | 20 | ARE-M13035 | RBW4TEQ |
| SGCS120250R | 120 | 250 | SGC12-125 | 20 | ARE-M13050 | RBW4TEQ |
| 48 VDC Systems | | | | | | |
| SGCS048030R | 48 | 30 | SGC12-30 | 4 | ARE-M4812 | RBN1TEQ |
| SGCS048090R | 48 | 90 | SGC12-90 | 4 | ARE-M4816 | RBW1TEQ |
| SGCS048125R | 48 | 125 | SGC12-125 | 4 | ARE-M4830 | RBW1TEQ |
| SGCS048180R | 48 | 180 | SGC12-90 | 8 | ARE-M4830 | RBW2TEQ |
| SGCS048250R | 48 | 250 | SGC12-125 | 8 | ARE-M4850 | RBW2TEQ |
| SGCS048375R | 48 | 375 | SGC12-125 | 12 | ARE-M4850 | RBW3TEQ |
| ¹ Charger size assumes 100% of rated AH removed from system, if actual system AH removed are lower than this assumption, please contact the C&D for custom system sizing. Assumes 8 hour charge | | | | | | |

Micro ARE Series Options

- Floor or Wall Mounting
- Optional Equipment as listed in the Micro ARE Series brochure including:
 - High capacity AC breaker
 - High interrupting current DC breaker
 - DC output protection & many more

Power Distribution Panel

- Available, but must contact factory with specific site requirements

Spill Containment

(Consult local building codes for validation of code compliance)

C&D's Hawk containment system offering is typically acceptable for most VRLA installations

- SP22042-HWK for RBN series racks
- SP22048-HWK for RBW series racks

For detailed component specifications please consult the following C&D product brochures:

- 12-1007 SGC Series Batteries
- 10-322 Micro ARE Series
- 41-6977 RB Rack Selection Guide

STANDARD PRODUCT CONFIGURATIONS

Many applications will require deviation from the standard models to meet specific site and system requirements. In these cases, custom system sizing will have to be done.

The custom systems will still be comprised of the following primary components, but their specific combinations will likely be different than the standard system configurations:

- SGC Series Batteries
- Micro ARE Series Charger/Rectifier
- Rack System

For Custom System Sizing, contact C&D with the following information

- System Load Profile (how many steps)?
 - What is the load (cumulative ampere) for each step?
 - What is the duration of the step in minutes?
- What is maximum voltage of the system?
- What is the minimum voltage?
- How much cycling is expected?
- Is a design margin required for the system?
- Is an aging factor required for the batteries?
- Desired recharge time
- Average operating temperature
- Install location physical constraints
- Required charger options – breaker requirements, etc.

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