



PROJECT REFERENCE NAME

Generator Joe – AmeriFlare

SCOPE OF WORK

Generator Paralleling Switchboard (2x250kW), Camlock Connection

Output:

UL891, 3 phase, 4 wire, 480Y/277V, with ground, 800A, 65kA bus bracing, 22kAIC@480V, silver plated copper bussing, NEMA 3R outdoor cabinet construction, Sherwin Williams SW 6959 Blue Chip Baked on Satin Finish, front access only, bottom cable entry, (3) sections:

Section 101, 94”H x 30”W x 24”D:

(1) NF Panel board

3 phase, 4 wire, 200A, 22kAIC@240V, tin plated Aluminum Bussing

- (1) 200A, 3 pole Thermal Mag Main circuit breaker
- (2) 50A, 1 pole circuit breaker
- (6) 30A, 1 pole circuit breaker
- (8) 20A, 1 pole circuit breaker

(1) Jefferson Transformer

45kVA, 3 phase, 80 degrees C temperature rise, 60Hz, aluminum wound, 480V primary, 240/120V secondary (Center tapped)

- Note: this sized transformer will provide a maximum of 200A to the load
- Transformer to be cable connected to primary and secondary overcurrent protection devices.

(1) Convenience Receptacle

Section 102, 94”H x 30”W x 24”D:

(2) Square D L Frame Molded Case Automatic Switch

UL489, fixed mount, manually operated, 35kAIC@480V, 80% rated, 3 pole, 400AF, 24VDC shunt trip, 2 form C auxiliary contacts



(1) Square D H Frame Molded Case Circuit breaker
UL489, fixed mount, manually operated, 35kAIC@480V, 100% rated, 3 pole,
50AF, thermal magnetic trip unit

(1) PQM, Square D PM710 with Modbus communications

- 3 phase metering – V, I, F, PF, Power, Energy (accuracy to 1%)
- (1) set of (3) CT's
- (1) set of (3) PT's

(1) RayCap 277/480V TVSS, 200kA, 100A circuit breaker disconnect

Section 103, 94"H x 48"W x 24"D:

(1) Square D P Frame Molded Case Automatic switch
UL489, fixed mount, manually operated, 35kAIC@480V, 80% rated, 3 pole,
800AF, 24VDC shunt trip, 2 form C auxiliary contacts

(2) Sets of male camlock terminations (A, B, C, N, G) and NEMA 3R receptacle
covers

- (2) Camlocks per phase, rated at 400A each

(1) Cubicle for communication and PLC equipment (Equipment provided,
installed, and wired by others)

- Double door construction (doors to extend a maximum of 24" each)

Notes:

1. Factory standard mechanical lugs on molded case circuit breakers included, all other lugs not included
2. All circuit breaker contacts wired to terminal strip, all Modbus communication modules wired in series to common point
3. Height of lineup subject to change after engineering review to accommodate components.
4. All sections include heavy duty pad lockable outer doors
5. R01-
 - a. Added convenience receptacle
 - b. SW 6959 Blue Chip Paint
 - c. Transformer now 240/120V Center tap secondary
6. R02-
 - a. RayCap TVSS now included
7. R03-
 - a. Changed Panel to 200A with 200A Main breaker
 - b. Added notes regarding pad lockable handles and maximum door size on section 103