

## JF5033-00

# STANDARD SAMPLE SPECIFICATION

## Battery / Load DC Distribution Center (AT Series Microprocessor-Controlled Float Battery Chargers)

### 1.0 – General

1.1 – The DC Distribution Center is an assembly designed to combine an AT Series Float Battery Charger, battery and the customer connected loads. The DC distribution shall provide multiple branch circuits and a main circuit breaker within one integrated assembly.

1.2 – The main circuit breaker can also serve as a battery disconnect or can be wired as a main disconnect for load shed, depending on the system configuration.

### 2.0 – Electrical

2.1 – The battery charger/distribution panel shall be factory pre-wired and fully assembled for installation or the distribution panel can be attached to an existing battery charger previously installed. Batteries to be supplied by others.

2.2 – The distribution panel shall be equipped with one (1) 2-Pole Main Circuit Breaker rated at 100 or 200 Amps, as specified by the purchaser. The 100 Amp main system shall have a capacity of up to fourteen (14) 2-Pole distribution circuit breakers. The 200 Amp main system shall have a capacity of up to eight (8) 2-Pole distribution circuit breakers. The distribution circuit breaker ratings range from 10 Amps to 50 Amps, as specified by the purchaser. Single pole distribution is also available for bus voltages of 12V, 24V and 48V.

2.3 – Internal wiring shall be switchboard type UL VW-1.

2.4 – User Wiring: Circuit breakers shall provide solderless compression terminals that accept the following AWG wire ranges:

100A MAIN	200A MAIN	10-50A LOAD
#12-#2/0 AWG	#4-350MCM	#14-#2 AWG

2.5 – Circuit breakers shall be electrically rated for 10KAIC at 130Vdc. Distribution circuit breakers shall be DIN Rail Type, mounted for ease of replacement. Main and load circuit breakers shall be 2-Pole series trip for 130Vdc bus.

2.6 – An optional ground bus is available.

### 3.0 – Mechanical

3.1 – The Distribution Panel enclosure shall be designed for floor, wall or rack mounting. The enclosure shall be constructed of 14-gauge steel and powder coated with ANSI 61 gray epoxy paint.

3.2 – The overall dimensions of the NEMA 1 rated enclosure shall measure 16.5”W x 12.50”D x 18.50”H.