**CAUTION:**

HIGH CENTER OF GRAVITY - USE CAUTION WHEN MOVING CABINET

ONLY PERSONNEL TRAINED TO MOVE HEAVY EQUIPMENT SHOULD HANDLE THESE BATTERY SYSTEMS.

USE A FORKLIFT OR SIMILAR DEVICE WITH APPROPRIATE LIFTING CAPACITY TO LIFT THE CABINET.

NOTE THE CENTER OF GRAVITY MEASUREMENT

**STEPS FOR BATTERY CABINET INSTALLATION PROCEDURE**

1. TO HELP PREVENT DAMAGE, ALL PANELS FROM ALL BATTERY CABINETS SHOULD BE LABELED TO THEIR PROSPECTIVE CABINET, REMOVED AND PUT ASIDE IN A SAFE LOCATION WHILE MOVING THE CABINETS TO FINAL INSTALL POSITION.

2. INSTALL AND ALIGN THE FIRST CABINET, THEN EACH CABINET ADJACENT TO EACH OTHER. REFER TO PAGE 3 FOR PROPER LINE UP.


4. INSTALL SIDE PANEL ONTO THE OPEN SIDES OF THE BATTERY CABINET. INSTALL THE DOORS AND LOCK WHEN NOT OPEN FOR MAINTENANCE.

5. THE CABINET MUST BE ANCHORED TO THE FLOOR FOR SEISMIC SENSITIVE AREAS, AND TO MAINTAIN THE SEISMIC INTEGRITY OF THE BATTERY CABINET. ANCHORING HARDWARE IS NOT INCLUDED. CONTACT INTRAPACK TO PURCHASE ANCHORING HARDWARE

**CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK**

- FOLLOW ALL SAFETY PRECAUTIONS WHEN WORKING ON THIS SYSTEM
- ALWAYS WEAR PROPER SAFETY EQUIPMENT INCLUDING EYE PROTECTION

**NOTE:**

- MOVE SLOWLY WHEN HANDLING. AVOID BUMPING THE CABINET WHILE MOVING. THE CABINET COULD FALL FORWARD OR SIDEWAYS IF HANDLED ROUGHLY.
- CABINET SYSTEMS ARE HEAVY AND COULD WEIGH AS MUCH AS 9,000 LIBS PER CABINET OR MORE.
- SPREAD FORKS AS WIDE AS POSSIBLE WHEN LIFTING CABINETS.
**POSITIONING OF COMPONENTS**

Are for illustration purposes and may not be represented in the exact location indicated.

**GENERAL NOTES:**

1. Only qualified technicians should perform installation or maintenance of this battery system.
2. All tools should be insulated to prevent electrical shock.
3. Open disconnects before installation or maintenance.
4. Check DC voltage at battery output and UPS output to ensure proper polarity before making final connections.

**CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK**

- Follow all safety precautions when working on this system.
- Always wear proper safety equipment including eye protection.

**ELECTRICAL ILLUSTRATION**

*DC Power cables from CJC to the UPS provided by others. Refer to NEC for proper AWG size.*

*Terminal block to terminal block and terminal block to UPS control wiring will be 16-20 ga stranded, provided by others.*

*Ground output, positive output, negative output.*

***Please note that the bus bars are shown apart for clarity only. Bus bars are inline with one another and run from the front to the back of the CJC.*

**MEGAFLEX UPS BATTERY SKU**

MGF1200-6-4A-ALT

**ADJACENT REMOTE TOP TERMINAL BATTERY CABINET SYSTEM**

IP5-240D600-480-6-6D600-AR-JC

**SYSTEM WEIGHT:** 30, 270 lbs

**JOB NO.:** N/A

**DATE:** 01/20/2021

**DRAWN BY:** SM

**DRAWING NO.:** IPS-240D600-480-6-6D600-AR-JC

**N.T.S.:** 2020

**APPD. BY:**

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CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK

FOLLOW ALL SAFETY PRECAUTIONS WHEN WORKING ON THIS SYSTEM
ALWAYS WEAR PROPER SAFETY EQUIPMENT INCLUDING EYE PROTECTION

DASHED LINES INDICATE CUSTOMER PROVIDED CABLES

SEE BREAKER INFORMATION DATA SHEET FOR PROPER TORQUE AND WIRE SIZE

BREAKER / CABLE CONNECTIONS

BAT. #40 NEG TO BREAKER TERM. T3
BAT. #20 NEG TO BREAKER TERM. T2
BAT. #1 POS TO BREAKER TERM. T1

BAT. #21 POS TO BREAKER TERM. T5
BAT. #1 POS TO BREAKER TERM. T1

+POS BREAKER OUTPUT TO +POS JC BUS
NEG BREAKER OUTPUT TO NEG JC BUS

1/4-20 X 1" HEX BOLT, SST
1/4 FLAT WASHER, SST
LOAD WIRE FOR HARNESS MOUNTS HERE WHERE APPLICABLE
TERMINAL LUG
BATTERY TERMINAL

1/4 LOCK WASHER, SST
TAB WASHER FOR BATTERY MONITORING (OPTIONAL)
TERMINAL LUG
BATTERY TERMINAL

GROUNDB LOCATION
GROUNDB LOCATION
GROUNDB LOCATION (KNOCKOUT)
Ø.41"

1/4-20 X 1" HEX BOLT, SST
1/4 LOCK WASHER, SST
LOCK WASHER
FLAT WASHER
NUT
TERMINAL LUG
BATTERY TERMINAL


DETAIL 'A'
REF: SHEET 3

DETAIL 'B'
REF: SHEET 3

DETAIL 'C'

**GROUND WIRE AND CONNECTIONS TO BE SUPPLIED BY CUSTOMER. WIRE LENGTH AND SIZE DETERMINED BY CUSTOMER

ABB
MEGAFLEX UPS BATTERY SKU
MGF1200-6-4A-ALT

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ADJACENT BATTERY CABINET SYSTEM:
All cable harnesses are provided in both the battery cabinet to battery cabinet connection including the battery cabinet cable harness to the UPS.

ADJACENT REMOTE BATTERY CABINET SYSTEM:
All cable harnesses are provided in both the battery cabinet to battery cabinet connection including the battery cabinet cable harness to the UPS. The battery cabinet to UPS cable harness will be provided by the installing contractor.

REMOTE BATTERY CABINET SYSTEM:
All cable harnesses from battery cabinet to battery cabinet will be provided. The battery cabinet to UPS cable harness will be provided by the installing contractor.

NOTE
All control connections are made by onsite installation contractor (typical).

DETAIL A
Control wiring detail
48 VDC shunt trip
And 24x2B auxiliary contacts

CABLE HARNESS (S002910)
Inside cabinet provided with battery system

TERRIMALS OPTIONAL. ONLY NEEDED IF REQUIRED BY UPS

RECOMMEND BELDEN WIRE HARNESS PART NUMBER B-5302FE-8-U1000

SYSTEM WEIGHT: 30, 210 lbs

MEGAFLEX UPS BATTERY SKU
MGF1200-6-4A-ALT

ADJACENT TOP TERMINAL
BATTERY CABINET SYSTEM

JOB NO. N/A
QUOTE NO. IPC20-1017
DRAWN BY: SM
APPR. BY: