SPREAD FORKS AS WIDE AS POSSIBLE WHEN LIFTING CABINETS.

MOVING A BATTERY CABINET

DO NOT LIFT THE CABINET HIGHER THAN NECESSARY TO CLEAR THE FLOOR WHEN MOVING

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

CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK

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

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

NOTE:

FROM FLOOR TO CABINET LIFTING POINT IS 3.125”

TILT FORKS BACK WHEN MOVING THE CABINET TO HELP STABILIZE THE CENTER OF GRAVITY.
CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK

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

ISOMETRIC BATTERY CABINET VIEW

CABINET A
CABINET B
CABINET C
CABINET D & CJC
CABINET E
CABINET F
CABINET G
CABINET F

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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

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.

Electrical Illustration

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DCC 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.
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

+POS BREAKER OUTPUT TO +POS JC BUS

-NEG BREAKER OUTPUT TO -NEG JC BUS

DETAIL 'A'

REF: SHEET 4

3/8" x 1.25" #5 GRADE OR HIGHER HEX BOLT
LOCK WASHER
FLAT WASHER
WIRE LUG

GROUNDB LOCATION

DETAIL 'B'
REF: SHEET 3

DETAIL 'C'

REF: SHEET 3

1/4 LOCK WASHER, SST
1/4 FLAT WASHER, SST
LOAD WIRE FOR BATTERY MONITORING (OPTIONAL)
TERMINAL LUG
BATTERY TERMINAL

GROUNDB LOCATION

GROUND LOCATION (KNOCKOUT)

1/4-20 X 1" HEX BOLT, SST
1/4 FLAT WASHER, SST

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

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

1/4-20 X 1" HEX BOLT, SST
1/4 FLAT WASHER, SST

LOAD WIRE FOR HARNES MOUNTS HERE WHERE APPLICABLE

+POS BREAKER OUTPUT TO +POS JC BUS

-NEG BREAKER OUTPUT TO -NEG JC BUS

DETIAL 'B'

REF: SHEET 3

1/4 LOCK WASHER, SST
1/4 FLAT WASHER, SST
TERMINAL LUG
BATTERY TERMINAL

MFGFLEX UPS BATTERY SKU
MGD1600-8-49-ALT

MW-5050 MARKISON ROAD
DALLAS, TX. 75238
PHONE: 214-348-7105
EMAIL: SALES@INTRAPACK.COM
WWW.INTRAPACK.COM
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6.26" GROUND LOCATION
2.76" GROUND LOCATION
0.41" GROUND LOCATION

NO.
DATE
REVISION DESCRIPTION

JOB NO.
QUOTE NO.
DRAWN BY:
APPR. BY:
SYSTEM WEIGHT:

MCD1600-8-49-ALT

NO.
DATE
DRAWING NO.
SYSTEM WEIGHT:

UPS12-305PLP, UPS12-355PLP, UPS12-405PLP, UPS12-455PLP, UPS12-505PLP, UPS12-555PLP, UPS12-605PLP
TORQUE TO 110 IN-LBS.

MANUFACTURER'S WEB SITE: https://alpinepowersystems.com/backup-power-products/backup-batteries/c-d-pure-lead-plus/

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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 from battery cabinet to battery cabinet will be provided. 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 and battery cabinet to UPS will be provided by the installing contractor.

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

CONTROL WIRING ROUTING

LEFT SIDE VIEW

TOP VIEW

END VIEW

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

SYSTEM WEIGHT: 46, 905 lbs

JOB NO. N/A DATE: 02/01/2021

QUOTE NO. IPC20-1037 DRAWN BY: VZ

DRAWING NO. IPS-320P54S-480-8-ID600-AR-JC

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