**CAUTION:**

HIGH CENTER OF GRAVITY - USE CAUTION WHEN MOVING CABINET.

1. **ONLY PERSONNEL TRAINED TO MOVE HEAVY EQUIPMENT SHOULD HANDLE THESE BATTERY SYSTEMS.**
2. **USE A FORKLIFT OR SIMILAR DEVICE WITH APPROPRIATE LIFTING CAPACITY TO LIFT THE CABINET.**
3. **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.**
3. **ROUTE THE POWER CABLES AS SHOWN ON SHEET 4.**
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:**

FLOOR TO CABINET LIFTING POINT IS 3.125".

SPREAD FORKS AS WIDE AS POSSIBLE WHEN LIFTING CABINETS.

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

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

**MOVING A BATTERY CABINET**

DO NOT LIFT THE CABINET HIGHER THAN NECESSARY TO CLEAR THE FLOOR WHEN MOVING.
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 & CJC
CABINET C
CABINET D
CABINET E
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

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
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

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

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

**DETAIL 'A'**

REF: SHEET 4

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

**INSERT-TYPE POST (DYNASTY)**

UPS12-305PLP, UPS12-355PLP, UPS12-405PLP, UPS12-545PLP, UPS12-605PLP
TORQUE TO 110 IN-LLBS.

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

**DETAIL 'B'**

REF: SHEET 3

1/4 LOCK WASHER, SST
1/4 FLAT WASHER, SST
LOAD WIRE FOR HARNESS MOUNTS HERE WHERE APPLICABLE
BATTERY TERMINAL

**DETAIL 'C'**

CABINET

CABINET

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

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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).

#18 AWG LUG, RING
#6-40 PAN HEAD SCREW (TYPICAL)
#18 AWG CU LEADS (TYPICAL)

DETAIL A - CABLE HARNESS
- 48 VDC SHUNT
- 48 VDC SHUNT
#6-40 PAN HEAD SCREW (TYPICAL)
CONTROL WIRE (S002910) INSIDE CABINET PROVIDED WITH BATTERY SYSTEM

CABLE AND CONNECTIONS FROM LAST BATTERY CABINET TO THE UPS PROVIDED BY THE INSTALLING CONTRACTOR.