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.

NOTE: FROM FLOOR TO CABINET LIFTING POINT IS 3.125".

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

NOTE THE CENTER OF GRAVITY MEASUREMENT

CAUTION: HIGH CENTER OF GRAVITY - USE CAUTION WHEN MOVING CABINET

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: TILT FORKS BACK WHEN MOVING THE CABINET TO HELP STABILIZE THE CENTER OF GRAVITY.

MEGAFLEX UPS BATTERY SKU MGD1000-4-49-ALT

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INTRAPACK
35.450" 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 & JC
CABINET C
CABINET D

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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.

POSITIONING OF COMPONENTS ARE FOR ILLUSTRATION PURPOSES AND MAY NOT BE REPRESENTED IN THE EXACT LOCATION INDICATED.

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.

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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

DETAIL 'C'

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

CABINET

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

6.26" Ø.41"

GROUND LOCATION

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

DETAIL 'K'
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, UPS12-455PLP, UPS12-545PLP, UPS12-650PLP
TORQUE TO 110 IN-LBS.

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

DIRECT BREAKER / CABLE CONNECTIONS

DASHED LINES INDICATE CUSTOMER PROVIDED CABLES

BREAKER / CABLE CONNECTIONS

T1 POS
T2
T3 NEG
T4 POS
T5
T6 NEG

NEG BREAKER OUTPUT TO NEG JC BUS

NEG BREAKER OUTPUT TO NEG JC BUS

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

+POS BREAKER OUTPUT TO +POS JC BUS

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

UPS12-305PLP, UPS12-355PLP, UPS12-405PLP, UPS12-455PLP, UPS12-545PLP, UPS12-650PLP
TORQUE TO 110 IN-LBS.

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

DETAIL 'C'

REF. SHEET 3

1.75" (KNOCKOUT)

DETAIL 'B'

GROUNLOCATION

GROUNLOCATION

GROUNLOCATION (KNOCKOUT)

GROUNLOCATION

GROUNLOCATION

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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)

- 48 VDC SHUNT
- 48 VDC SHUNT

#6-40 PAN HEAD SCREW
JUMPER (2 TERMINALS)

#18 AWG LUG, RING

N.C.
COMM. N.O.

- 48 VDC SHUNT
+ 48 VDC SHUNT

CONTROL WIRE CABLE HARNESS

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

CONTROL WIRING ROUTING

SEE DETAIL A - CABLE HARNESS
ONE HARNESS PER CABINET
PART # 5002910 (TYP)

CABLE HARNESS (5002910)
INSIDE CABINET PROVIDED WITH BATTERY SYSTEM

SEE DETAIL A - CABLE HARNESS
ONE HARNESS PER CABINET
PART # S002910 (TYP)

RECOMMEND BELDEN WIRE HARNESS PART NUMBER B-5402FE-8-U1000

#18 AWG CU LEADS (TYPICAL)

BLACK WHITE
GREEN RED

1 2 3 4 5 6 7 8
48 VDC SHUNT TRIP
AND 2A/2B AUXILIARY CONTACTS

TERMINALS OPTIONAL, ONLY NEEDED IF REQUIRED BY UPS

SYSTEM WEIGHT: 28,660 lbs

MEGAFLEX UPS BATTERY SKU
MGD1000-4-49-ALT

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