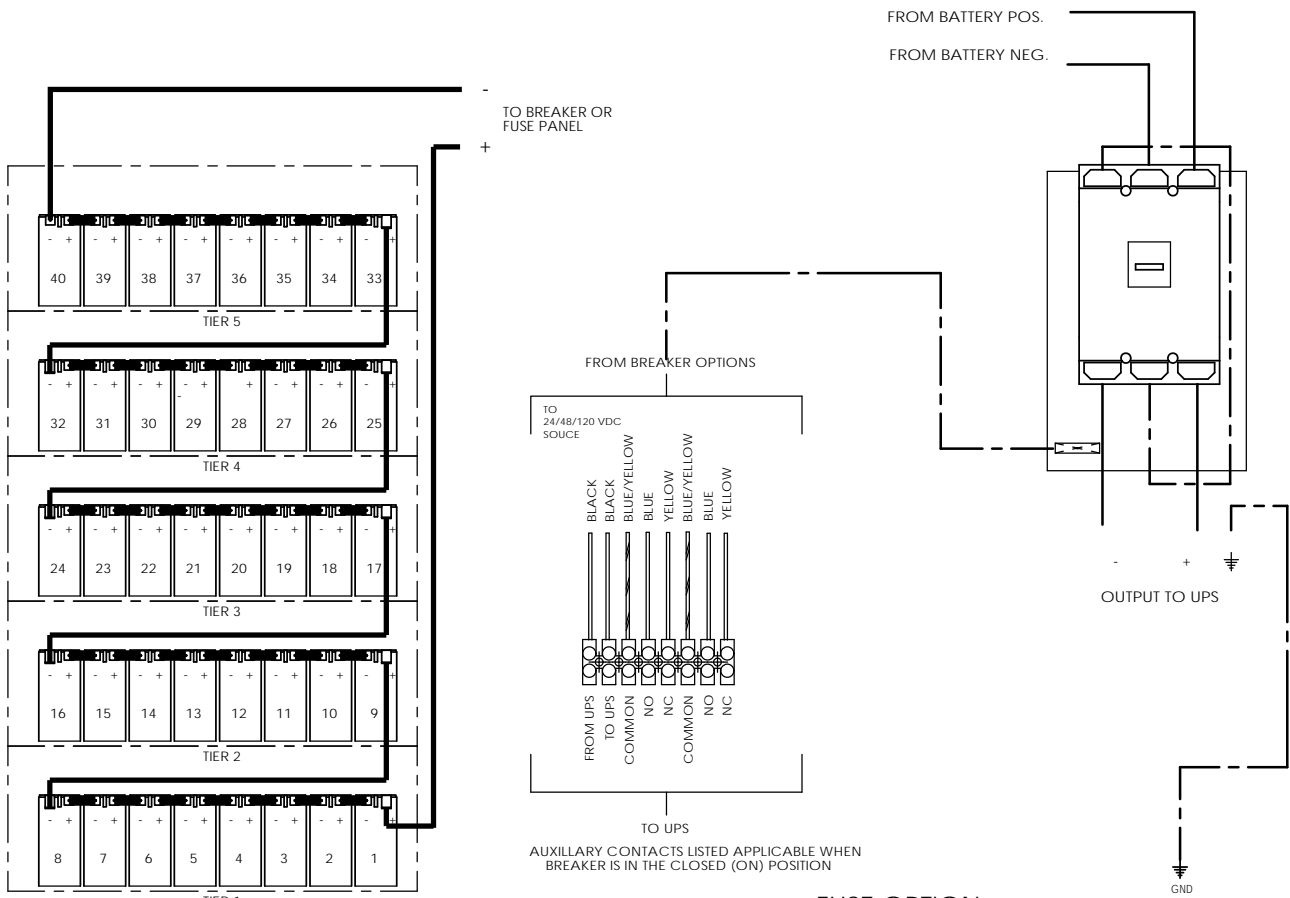


CABINET NOTES:

1. NEMA 1 DESIGN
2. EMPTY CABINET WEIGHT: 820 LBS. (372 KG)
3. UL 1778 LISTED AND FULLY TESTED AT THE FACTORY PRIOR TO SHIPPING.
4. FULLY WELDED FRAME. MANUFACTURED FROM HEAVY GAUGE STEEL.
5. POWDER COATED WITH A CORROSION RESISTANT, EPOXY HYBRID POWDER USING A FIVE STAGE EMERSION PRETREATMENT PROCESS.
6. BATTERIES CAN BE ACCESSED FROM FRONT, REAR, AND BOTH SIDES.
7. CUSTOM DESIGNED PALLETS FOR SHIPPING ANYWHERE LOCALLY AND GLOBALLY (UPON REQUEST).
8. BATTERY CABINET CAN BE MOVED WITH A NORMAL PALLET JACK FROM FRONT AND REAR.
9. STANDARD AND CUSTOM SPILL CONTAINMENT OPTIONS ARE AVAILABLE.

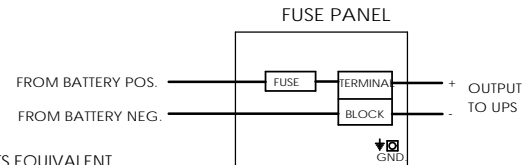
UNLESS OTHERWISE SPECIFIED		ELECTRONIC SYSTEM SUPPORT		3233 W. Kingsley Rd. Ste. 200 Capehart, Texas 75641 PH: 972-272-2668 FAX: 972-276-2644	
DESIGNS ARE FINISHED	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11	TITLE: ESS BATTERY CABINET, 12V FRONT TERMINAL, SIDE BRKR, 480V	
PROJECTIONS	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11	SIZE: DWG. NO. REV	
PROJ. NO. 1	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11	D EFS2-SPEC A	
PROJ. NO. 2	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11	SCALE: 1:12 WEIGHT: SHEET 1 OF 2	
PROJ. NO. 3	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11		
PROJ. NO. 4	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11		
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PROJ. NO. 49	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11		
PROJ. NO. 50	DATE: 01/12/11	ISSUED BY: [Signature]	DATE: 01/12/11		

BREAKER DETAIL



AUXILIARY CONTACTS LISTED APPLICABLE WHEN BREAKER IS IN THE CLOSED (ON) POSITION

FUSE OPTION



BATTERY CABINET PART NUMBER GUIDE			
CABINET PART NUMBER		DESCRIPTION	
EF52	M	A	
			BASE PART NUMBER
			CABINET HEIGHT
			CABINET COLOR

BATTERY CONFIGURATION TABLE				
BATTERY MODEL NUMBER	BATTERY MANUFACTURER			MAXIMUM NUMBER OF BATTERIES PER CABINET
	EAST PENN	C & D	FIAMM	
HR3500ET	UPS 12-355MFR		12FLX700F	40
HR5500ET	UPS 12-615MRF			
	UPS 12-700MRF			

HEIGHT LEGEND	
HEIGHT (INCHES)	AVAILABILITY
A = 84.00	N/A
B = 82.00	N/A
C = 80.00	N/A
D = 79.00	N/A
E = 78.7	N/A
F = 78.4	4-6 WEEKS
G = 78.0	4-6 WEEKS
H = 77.3	4-6 WEEKS
J = 76.8	4-6 WEEKS
K = 75.3	4-6 WEEKS
L = 75.0	4-6 WEEKS
**M = 74.8	IN STOCK
N = 73.5	N/A
P = 72.0	N/A
Q = 71.7	N/A
R = 70.9	N/A
S = TBD	N/A
T = TBD	N/A

** 74.8 IS THE STANDARD HEIGHT FOR THE EF52 CABINETS. SHORTER HEIGHTS ARE NOT AVAILABLE** PLEASE CONSULT WITH SALES STAFF FOR FURTHER INFO.

COLOR LEGEND	
**A = BLACK	
B = BEIGE	
C = LIEBERT GRAY	
D = MITSUBISHI BEIGE	
E = MGE WHITE	
F = TOSHIBA BLACK	
G = GE WHITE	
H = LIEBERT BLACK	
J = EATON BLACK	
K = TBD	

BLACK IS ESS STANDARD COLOR AND WILL BE IN STOCK
LETTERS STATING "TBD" ARE OPEN FOR CUSTOM COLORS NOT LISTED. PLEASE CONSULT WITH SALES STAFF FOR FURTHER INFO.

PART NUMBER GUIDE:

1. REFERENCE THE BATTERY PART NUMBER GUIDE TABLE WHEN ORDERING A CABINET.
2. THE BASE NUMBER WILL ALWAYS BE THE SAME. HOWEVER, 2 ALPHA DIGITS WILL FOLLOW THE BASE NUMBER INDICATING THE HEIGHT AND COLOR OF THE CABINET.
3. REFERENCE THE "HEIGHT LEGEND" TABLE AND THE "COLOR LEGEND" TABLE IN ORDER TO DETERMINE THE 2 ALPHA DIGITS NEEDED TO COMPLETE YOUR ORDER.
4. EXAMPLE: EF52MA - THIS REPRESENTS A STANDARD EF52 CABINET, 74.8 INCH HEIGHT WITH A POWDER COAT FINISH OF STANDARD BLACK.
5. THE EF52 CABINET IS NOT AVAILABLE IN OTHER HEIGHTS OTHER THAN 74.8 INCHES.

ELECTRICAL NOTES:

1. ALL CABLES ARE UL LISTED.
2. ALL BREAKERS ARE UL RECOGNIZED.
3. ALL FUSES ARE UL RECOGNIZED, TYPE A50P, A70P OR EQUIVALENT. (FUSED CABINETS ARE NOT LISTED IN UL FILE). ALWAYS REPLACE WITH SAME TYPE OR ITS EQUIVALENT.
4. TERMINAL BLOCKS ARE UL RECOGNIZED, 600V RATED.
5. CABINETS ARE SHIPPED WITH THE BREAKER IN THE TRIPPED POSITION.
6. CABINET GROUND CONNECTION IS A 5/16-18 THREADED STUD.
7. CABLES BETWEEN BATTERY CABINET TO UNINTERRUPTIBLE POWER SUPPLY ARE OPTIONAL.

UNLESS OTHERWISE SPECIFIED:		ELECTRONIC SYSTEM SUPPORT		2233 W. Kingsley Rd.	
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.		888-475-9292 www.ess.io		Sho. 200	
ANGLES: MATCH 3. DIM: 3. THIS SPACE OPTIONAL. 4. THIS SPACE OPTIONAL. 5. THIS SPACE OPTIONAL.		DATE: 2/17/12		Caddell, Texas 75041	
PRODUCTION: SEE NOTE 1		ISSUE: 1		PH: 972-272-2468	
ISSUE: SEE NOTE 2		ISSUE: 1		FAX: 972-272-2684	
DO NOT SCALE DRAWING		SCALE: 1/2"		SHEET 2 OF 2	

PROPRIETARY AND CONFIDENTIAL
SEE INFORMATION CONTAINED IN THIS DRAWING FOR THE DATE OF THE FIRST ISSUE.
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