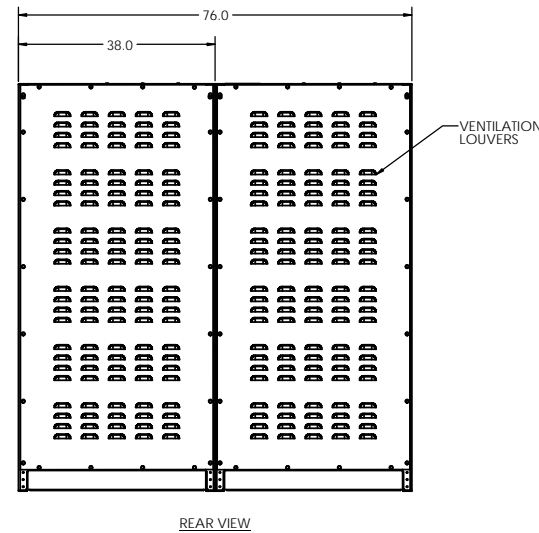
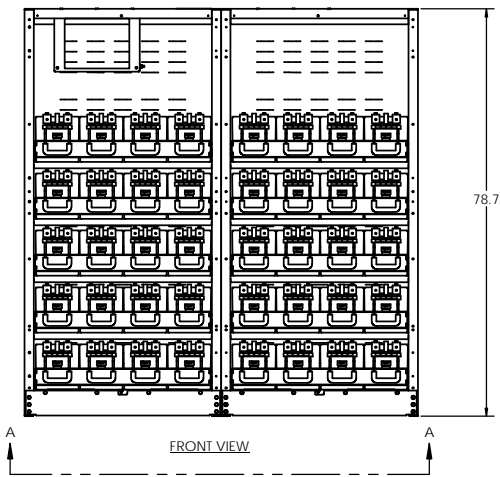
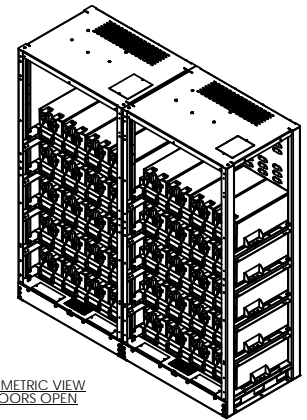


SECTION A-A
BOTTOM VIEW



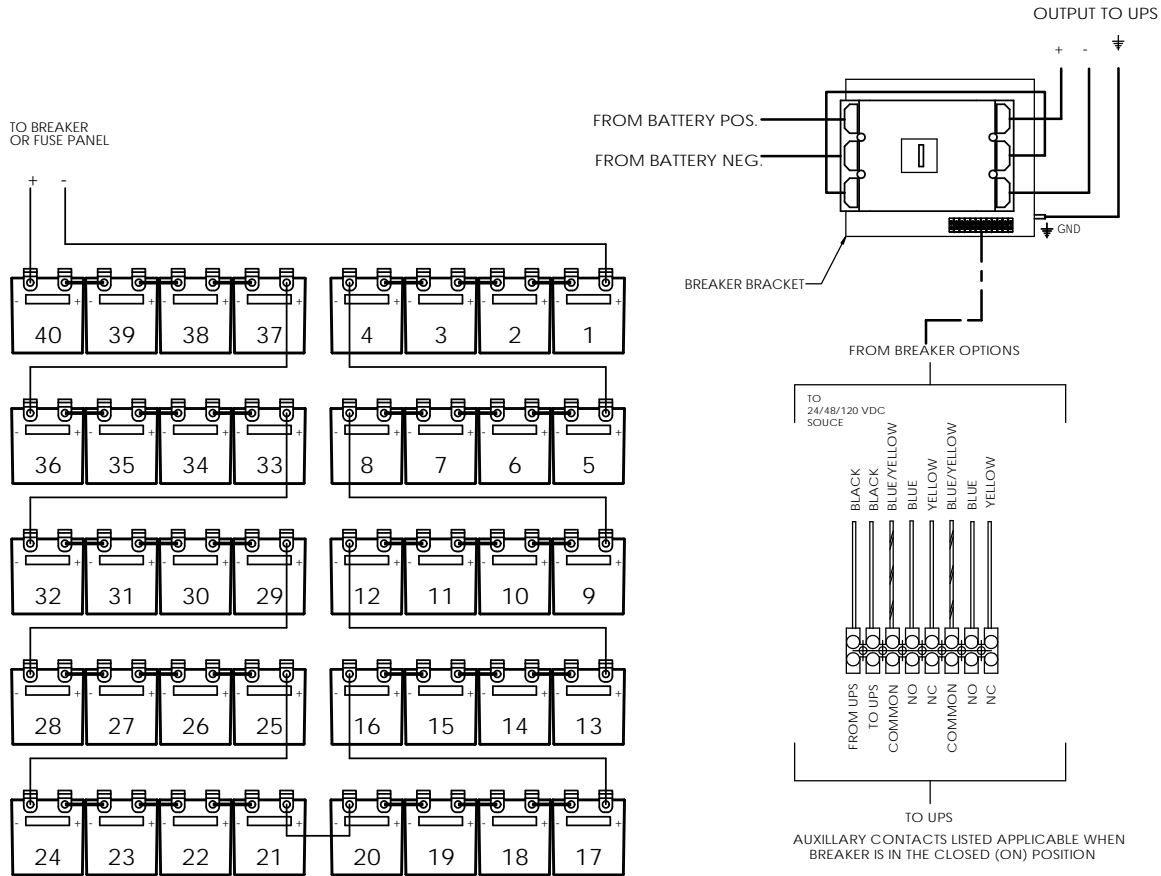
RACK NOTES:

1. EMPTY RACK WEIGHT 895 LBS. TOTAL, 2 RACKS FOR 480V STRING
2. FULLY WELDED FRAME - MANUFACTURED FROM HEAVY GAUGE STEEL.
3. POWDER COATED WITH A CORROSION RESISTANT POWDER USING A FIVE STAGE EMERSION PRETREATMENT PROCESS.
4. BATTERIES CAN BE ACCESSED FROM FRONT, REAR, AND BOTH SIDES.
5. CUSTOM DESIGNED PALLETS FOR SHIPPING ANYWHERE LOCALLY AND GLOBALLY (UPON REQUEST).
6. BATTERY RACK CAN BE MOVED WITH A NORMAL PALLET JACK FROM FRONT AND REAR.
7. STANDARD AND CUSTOM SPILL CONTAINMENT OPTIONS ARE AVAILABLE.

PROPRIETARY AND CONFIDENTIAL
SEE REVISIONS CONTAINED IN THIS
DRAWING OR THE DATA REPORT OR
ELECTRONIC SYSTEMS SUPPORT. ANY
REVISIONS TO THIS DRAWING OR DATA
REPORT MUST BE APPROVED BY
ELECTRONIC SYSTEMS SUPPORT &
RECORDED.

UNLESS OTHERWISE SPECIFIED		ELECTRONIC SYSTEMS SUPPORT		3233 W. Kingsley Rd	
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		888-475-9292 www.ess.io		Sho. 200	
ANGLES: MATCH 5. BEND: #		DATE: 12-13		Garland, Texas 75041	
TWO PLACE DECIMAL #		DRAWN: [Signature]		PH: 972-232-2448	
THREE PLACE DECIMAL #		CHECKED: [Signature]		FAX: 972-236-9544	
TOLERANCES		TITLE: BATTERY RACK, 12V FT		REV	
SEE NOTE 1		MFG APPR: [Signature]		GROUP 4D BATTERY	
SEE NOTE 2		MFG APPR: [Signature]		SIZE D	
DO NOT SCALE DRAWING		DIA		EFRS3-SPEC	
USED ON		SCALE: 1:12		WEIGHT: A	
				SHEET 1 OF 2	

BREAKER DETAIL



BATTERY RACK PART NUMBER GUIDE			
RACK PART NUMBER			DESCRIPTION
EFR53	E	A	
			BASE PART NUMBER
			RACK HEIGHT
			RACK COLOR

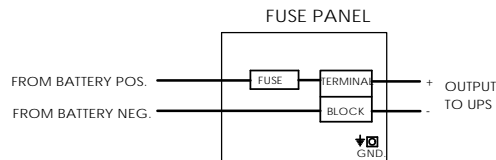
BATTERY CONFIGURATION TABLE				
BATTERY MODEL NUMBER	BATTERY MANUFACTURER			MAXIMUM NUMBER OF BATTERIES PER STRING (2 RACKS)
	ENERSYS	C & D	EAST PENN	
12HX680	UPS12-745MRF	4DHR6500	12MI4500F	40

HEIGHT LEGEND	
HEIGHT (INCHES)	AVAILABILITY
A = 84.00	N/A
B = 82.00	N/A
C = 80.00	N/A
D = 79.0	N/A
**E = 78.7	IN STOCK
F = 78.4	N/A
G = 78.0	N/A
H = 77.3	N/A
J = 76.8	N/A
K = 75.3	N/A
L = 75.0	N/A
M = 74.8	N/A
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

** 78.7 IS THE STANDARD HEIGHT FOR THE EFR53 RACKS. OTHER 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.

FUSE OPTION



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. ALWAYS REPLACE WITH SAME TYPE OR ITS EQUIVALENT.
4. TERMINAL BLOCKS ARE UL RECOGNIZED, 600V RATED.
5. RACKS ARE SHIPPED WITH THE BREAKER IN THE TRIPPED POSITION.
6. RACK GROUND CONNECTION IS A 5/16-18 THREADED STUD.
7. CABLES BETWEEN BATTERY RACK TO UNINTERRUPTIBLE POWER SUPPLY ARE OPTIONAL.

PART NUMBER GUIDE:

1. REFERENCE THE BATTERY PART NUMBER GUIDE TABLE WHEN ORDERING A RACK.
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 RACK.
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: EFR53EA - THIS REPRESENTS A STANDARD EFR53 RACK, 78.7 INCH HEIGHT WITH A POWDER COAT FINISH OF STANDARD BLACK.
5. THE EFR53 RACK IS NOT AVAILABLE IN OTHER HEIGHTS OTHER THAN 78.7 INCHES.

UNLESS OTHERWISE SPECIFIED		ESS ELECTRONIC SYSTEM SUPPORT		3233 W. Kingsley Rd. Ste. 200 Columbia, Texas 75041 PH: 972-372-2444 FAX: 972-276-9844	
DESIGNER	DATE	ISSUE NO.	REV.	DATE	DESCRIPTION
DESIGNED BY: [Signature]	DATE: 12-13	ISSUE NO.:	REV.:	DATE:	DESCRIPTION:
CHECKED BY: [Signature]	DATE:	ISSUE NO.:	REV.:	DATE:	DESCRIPTION:
APPROVED BY: [Signature]	DATE:	ISSUE NO.:	REV.:	DATE:	DESCRIPTION:
USED ON:	SEE NOTE 1	ISSUE NO.:	REV.:	DATE:	DESCRIPTION:
	SEE NOTE 2	ISSUE NO.:	REV.:	DATE:	DESCRIPTION:
	DO NOT SCALE DRAWING	ISSUE NO.:	REV.:	DATE:	DESCRIPTION:

BATTERY RACK, 12V FT GROUP 4D BATTERY

SIZE: DWG. NO. **D** EFR53-SPEC REV. **A**

SCALE: 1:12 WEIGHT: SHEET 2 OF 2