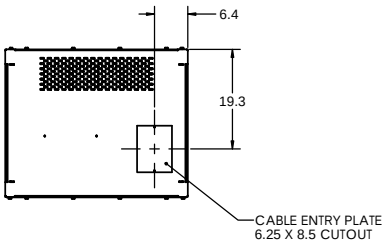
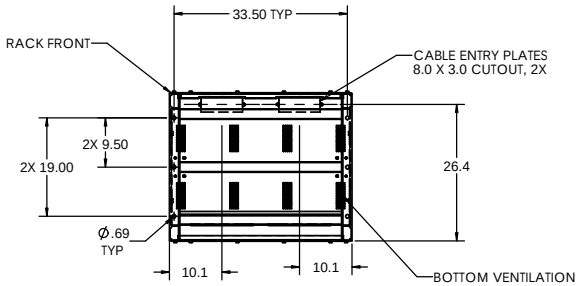
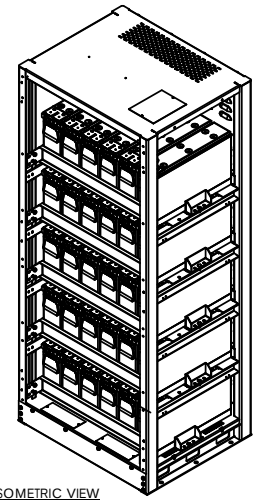
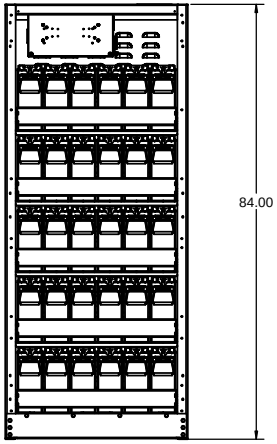




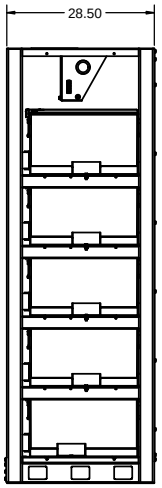
SECTION A-A



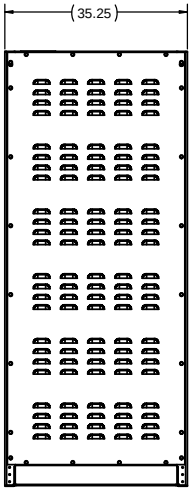
ISOMETRIC VIEW



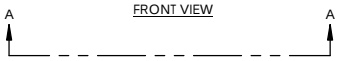
FRONT VIEW



SIDE VIEW



REAR VIEW



RACK NOTES:

1. EMPTY RACK WEIGHT: 465 LBS.
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.

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: MACH ± .5 BEND ±1
TWO PLACE DECIMAL ± .02
THREE PLACE DECIMAL ± .01
PROJECTION
MATERIAL: SEE NOTE 1
FINISH: SEE NOTE 2
DO NOT SCALE DRAWING

USED ON

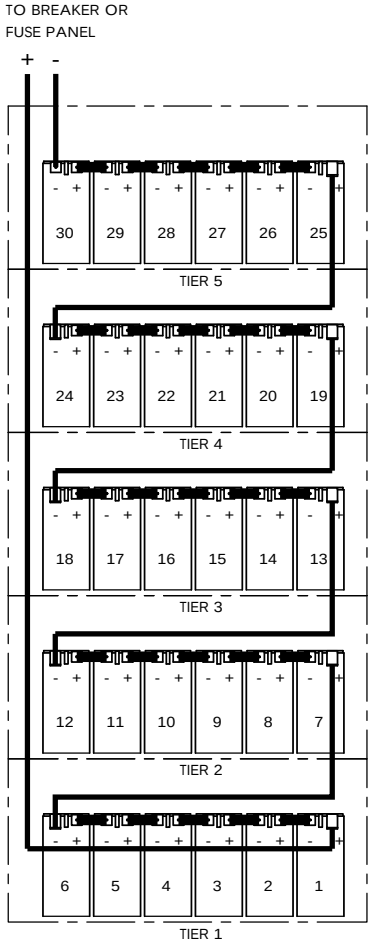
ELECTRONIC SYSTEM SUPPORT
888-475-9292 www.ess.to
3233 W. Kingsley Rd.
Ste. 200
Garland, Texas 75041
PH. 972-272-2468
FAX 972-276-9844

	NAME	DATE
DRAWN	RNA	3-5-13
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

TITLE: BATTERY RACK, 12V, 6 X 5, 6 WIDE

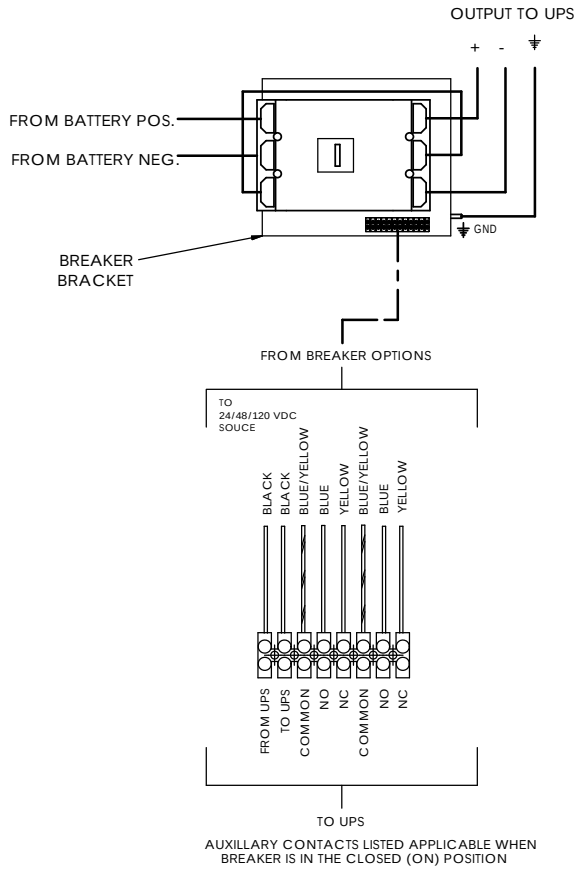
SIZE D | DWG. NO. EFR51-SPEC | REV A

SCALE: 1:12 | WEIGHT: | SHEET 1 OF 2



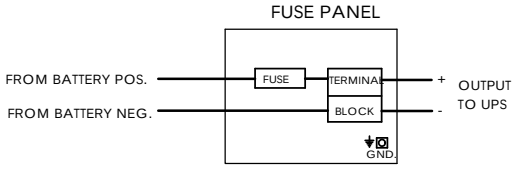
TYP 360VDC WIRING

BREAKER DETAIL



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

FUSE OPTION



BATTERY RACK PART NUMBER GUIDE			
RACK PART NUMBER			DESCRIPTION
EFR51	A	A	
			BASE PART NUMBER
			RACK HEIGHT
			RACK COLOR

BATTERY CONFIGURATION TABLE				
	BATTERY MANUFACTURER			MAXIMUM NUMBER OF BATTERIES PER RACK
	EAST PENN	C & D	FIAMM	
BATTERY MODEL NUMBER	HR3500ET	UPS 12-355MFR	12FLX700F	30
	HR5500ET	UPS 12-615MRF		30
		UPS 12-700MRF		

HEIGHT LEGEND	
HEIGHT (INCHES)	AVAILABILITY
**A = 84.00	IN STOCK
B = 82.00	N/A
C = 80.00	N/A
D = 79.0	N/A
E = 78.7	N/A
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

** 84.0 IS THE STANDARD HEIGHT FOR THE EFR51 RACK. 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 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: EFR51AA - THIS REPRESENTS A STANDARD EFR51 RACK, 84.0 INCH HEIGHT WITH A POWDER COAT FINISH OF STANDARD BLACK.
5. THE EFR51 RACK IS NOT AVAILABLE IN OTHER HEIGHTS OTHER THAT 84.0 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. 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. RACKS GROUND CONNECTION IS A 5/16-18 THREADED STUD.
7. CABLES BETWEEN BATTERY RACKS TO UNINTERRUPTIBLE POWER SUPPLY ARE OPTIONAL.

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TITLE: BATTERY RACK, 12V, 6 X 5, 6 WIDE
SIZE D | DWG. NO. EFR51-SPEC | REV A
SCALE: 1:12 | WEIGHT: | SHEET 2 OF 2