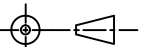


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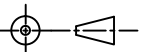
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FPS 1U PRODUCT GUIDE



SHEET CONTENTS	SECTION	NOTE
POWER CORE CONFIGURATION MATRIX	1.0	
RECTIFIER SHELF DETAIL	2.0	
D1-D2 40A 7-BREAKER DISTRIBUTION DETAIL	3.0	
D10-D11 40A 4-BREAKER DISTRIBUTION DETAIL	3.1	
D30-D31 100A 2-BREAKER DISTRIBUTION DETAIL	3.3	
D40-D41 100A 10-GMT DISTRIBUTION DETAIL	3.4	
D50-D53 100A BULK OUTPUT DISTRIBUTION DETAIL	3.5	
D60-D61 100A 10-GMT REAR ACCESS DISTRIBUTION DETAIL	3.6	
CONTROLLER	4.0	
RECTIFIER	5.0	
ACCESSORY	6.0	
SCHEMATIC DRAWING FOR S1 WITH D1 OR D2	7.0	
SCHEMATIC DRAWING FOR S1 WITH D10 OR D11	7.1	
SCHEMATIC DRAWING FOR S1 WITH D20 OR D21	7.2	
SCHEMATIC DRAWING FOR S2 WITH D30 OR D31	7.3	
SCHEMATIC DRAWING FOR S3 WITH D40, D41 OR D50, D51	7.4	
SCHEMATIC DRAWING FOR S2 WITH D60 OR D61	7.5	
SCHEMATIC DRAWING FOR S2 WITH D62 OR D63	7.6	
CUSTOMER CONFIGURATION KIT	8.0	
CUSTOMER REFERENCE	9.0	



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SECTION 1.0 CONFIGURATION MATRIX

TABLE 1 FPS POWERCORE CONFIGURATION MATRIX (PART NUMBER STANDS FOR THE POWER CORE COMBINED RECTIFIER SHELF AND DISTRIBUTION)					
		RECTIFIER SHELF SELECTION (SEE SECTION 2.0 FOR DETAIL)			NOTE
		S1 – INDIVIDUAL AC TERMINAL BLOCK, 2 RECTIFIER POSITIONS	S2 – INDIVIDUAL AC TERMINAL BLOCK, 3 RECTIFIER POSITIONS	S3 – INDIVIDUAL AC SINGLE HOLE LUG, 3 RECTIFIER POSITIONS	
DISTRIBUTION SELECTION (SEE SECTION 3.0, 3.1, 3.3, 3.4, 3.5, 3.6 FOR DETAIL)	D1 – 2B 6L LVBD	TBD	N/A	N/A	
	D2 – 2B 6L SHUNT	TBD	N/A	N/A	
	D10 – 2B 4L LVBD	TBD	N/A	N/A	
	D11 – 4L 2B 4L SHUNT	TBD	N/A	N/A	
	D30 – 2B 2L LVBD	N/A	MS0301.000	N/A	
	D31 – 2B 2L SHUNT	N/A	MS0301.001	N/A	
	D40 – 2B 10GMT LVBD	N/A	N/A	332748	
	D41 – 2B 10GMT SHUNT	N/A	N/A	320056	
	D50 – 2B 10GMT LVBD REAR	N/A	N/A	330180	
	D51 – 2B 10GMT SHUNT REAR	N/A	N/A	330179	
	D60 – NEG BULK 2B 2L LVBD	N/A	TBD	N/A	
	D61 – NEG BULK 2B 2L SHUNT	N/A	TBD	N/A	
	D62 – POS BULK 2B 2L LVBD	N/A	CTES0301.003	N/A	
	D63 – POS BULK 2B 2L SHUNT	N/A	CTES0301.002	N/A	

NOTE: RECTIFIER, BATTERY BREAKER AND LOAD BREAKER ARE NOT INCLUDED IN THE ABOVE PART NUMBERS

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1.0

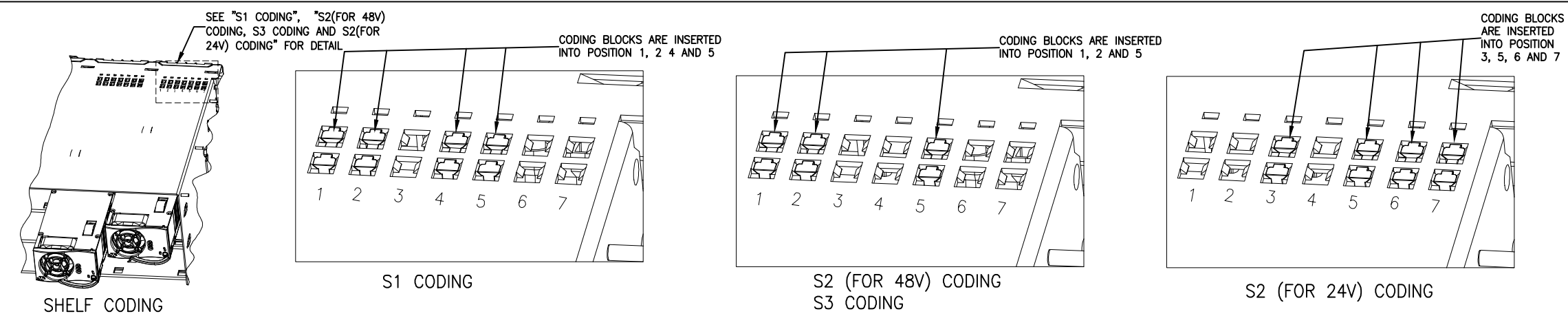
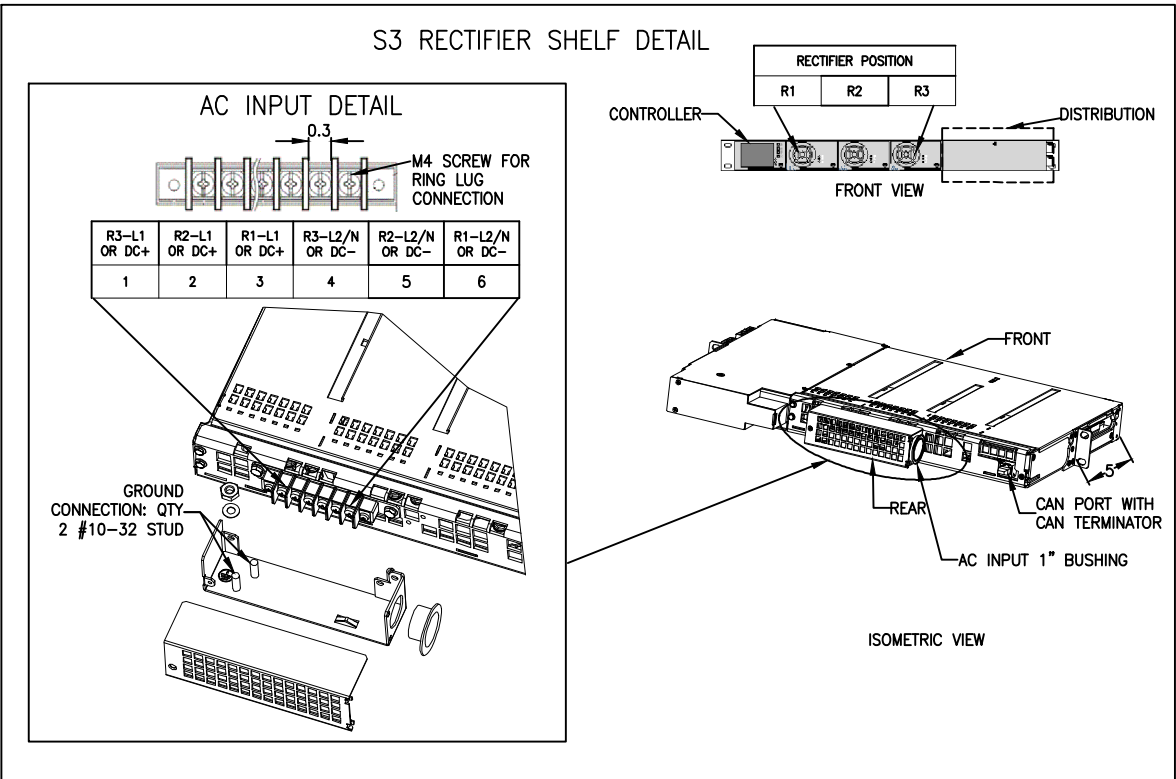
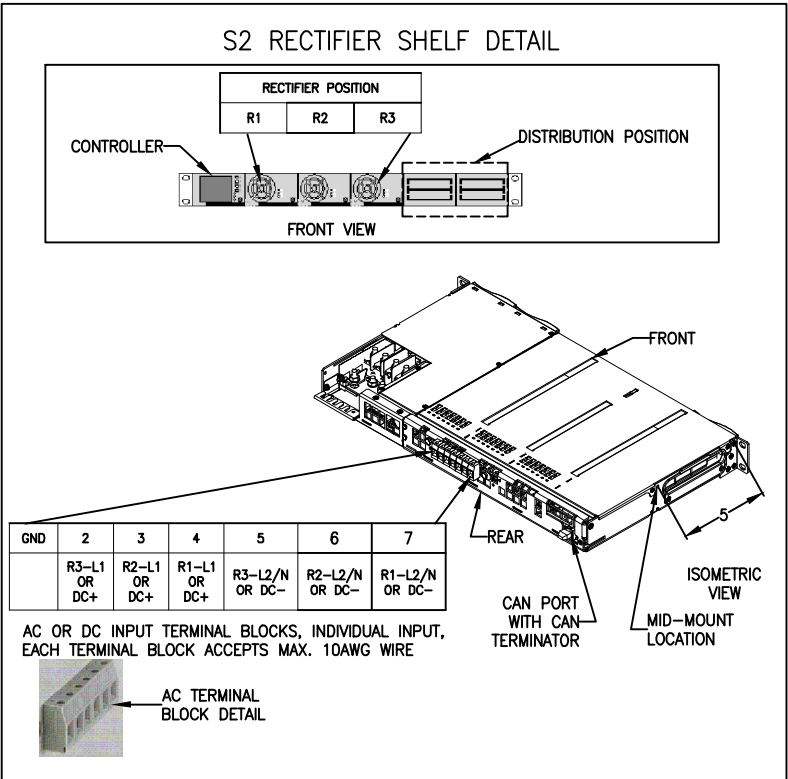
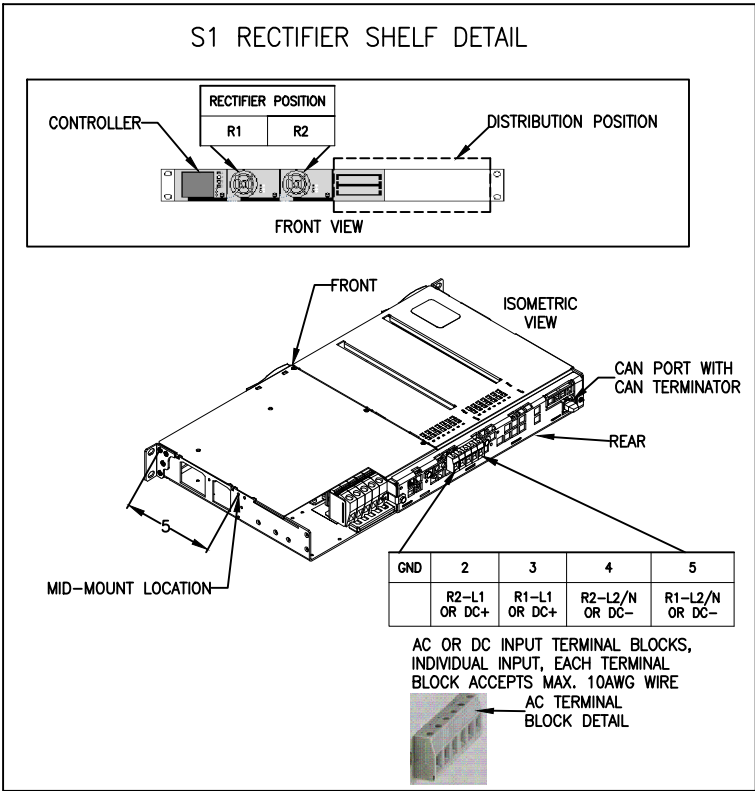
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SECTION 2.0 RECTIFIER/DC-DC CONVERTER SHELF DETAIL

TABLE 2 RECTIFIER/DC-DC CONVERTER SHELF

GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE (VDC)	SYSTEM CAPACITY (A)	RECTIFIER		AC OR DC INPUT				MOUNTING TYPE	WIDTH (IN)	DEPTH (IN)	HEIGHT (RU)	EST. WEIGHT (LBS)	NOTE
				RECTIFIER POSITIONS	COMPATIBLE RECTIFIER	AC OR DC INPUT	AC OR DC CONNECTOR	GROUND CONNECTION	AC OR DC CONDUIT						
S1	FPS 48V/40A RECTIFIER SHELF, 2 RECTIFIER POSITIONS 1RU HIGH - QTY 2 RECTIFIER POSITIONS, CODED FOR FPS 48V/1000W HE ONLY, INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - SMARTPACK S CONTROLLER (242100.410) INCLUDED - TEMPERATURE SENSE 10 FT CABLE (258160) INCLUDED	-48V	40	2	48V/1000W	INDIVIDUAL REAR ACCESS	TERMINAL BLOCK MAX. 10AWG	TERMINAL BLOCK MAX. 10AWG	N/A	FLUSH OR MID-MOUNT	19	10.32	1	8	
S2	FPS 48V/80A RECTIFIER SHELF, 3 RECTIFIER POSITIONS, 1RU HIGH - QTY 3 RECTIFIER POSITIONS, CODED FOR 48V/1000W HE AND 48V/1800W HE RECTIFIER; INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - SMARTPACK S CONTROLLER (242100.410) INCLUDED - TEMPERATURE SENSE 10 FT CABLE (258160) INCLUDED	±48 OR ±24	100	3	48V/1000W OR 48V/1800W	INDIVIDUAL REAR ACCESS	TERMINAL BLOCK MAX. 10AWG	TERMINAL BLOCK MAX. 10AWG	N/A	FLUSH OR MID-MOUNT	19	10.32	1	8	
S3	FPS 48V/80A RECTIFIER SHELF US, 3 RECTIFIER POSITIONS, 1RU HIGH - QTY 3 RECTIFIER POSITIONS, CODED FOR 48V/1000W HE AND 48V/1800W HE RECTIFIER, INDIVIDUAL INPUT, M4 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. 12AWG, REAR ACCESS. - SMARTPACK S CONTROLLER (242100.410) INCLUDED - TEMPERATURE SENSE 10 FT CABLE (258160) INCLUDED	-48V	100	3	48V/1000W OR 48V/1800W	INDIVIDUAL REAR ACCESS	M4 SCREW (SINGLE HOLE LUG), MAX. 12AWG	QTY 2 #10-32 STUD	1.0" BUSHING	FLUSH OR MID-MOUNT*	19	11.82	1	8	

*NOTE: WHEN S3 WORKS WITH D40 TO D41 IN SECTION 3.4, ONLY MID-MOUNT IS AVAILABLE



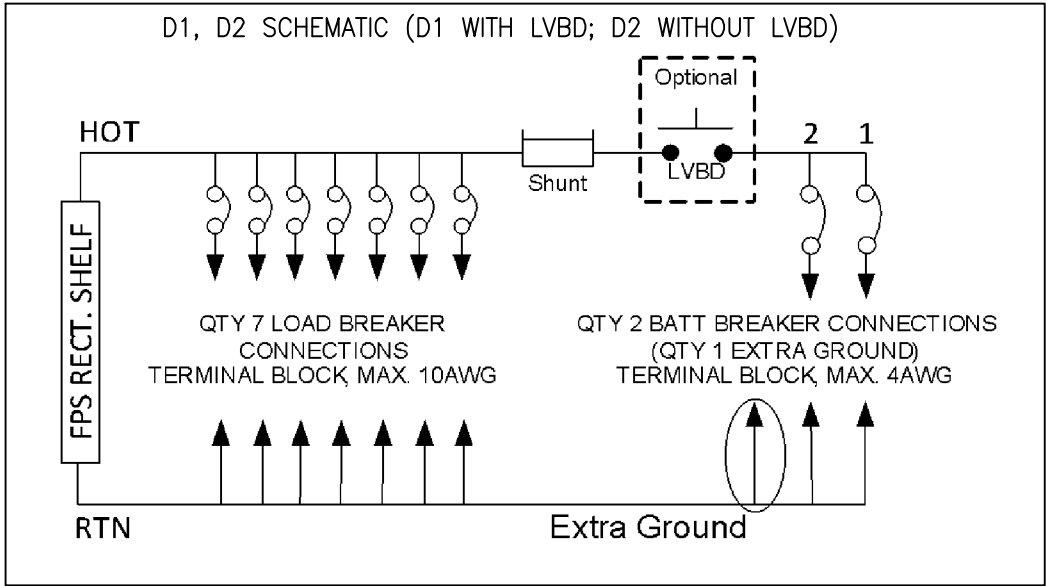
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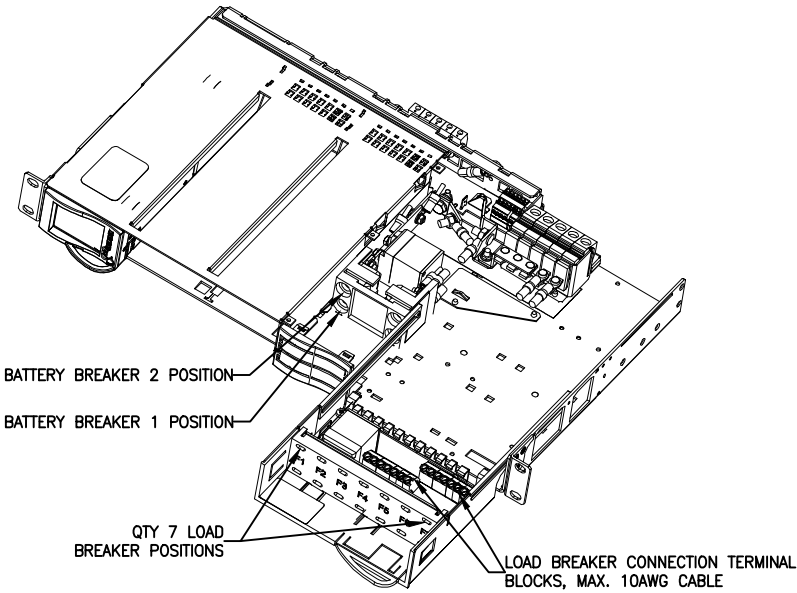
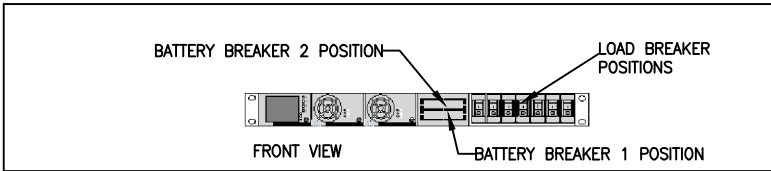
SECTION 3.0 D1–D2 40A 7–BREAKER DISTRIBUTION DETAIL

TABLE 3A 40A 7–BREAKER DISTRIBUTION

GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE	SYSTEM CAPACITY (A)	BATTERY DISTRIBUTION		LOAD DISTRIBUTION	COMPATIBLE RECTIFIER SHELF	EST. WEIGHT (LBS)	NOTE
				BATTERY BREAKER POSITONS & CONNECTIONS	LVBD & SHUNT	LOAD BREAKER POSITIONS & CONNECTIONS			
D1	FPS 48V/40A DISTRIBUTION, 2B 7L LVBD – QTY 2 BATT BREAKER (UP TO 40A) POSITIONS, 50A/20mV SHUNT AND 50A LVBD; TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS – QTY 7 LOAD BREAKER (UP TO 20A) POSITIONS, DRAWER STYLE, TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS	–48	40	QTY 2 BREAKER (UP TO 40A) POSITIONS TERMINAL BLOCK, MAX. 4AWG REAR ACCESS	50A LVBD; 50A/20mV SHUNT	QTY 7 BREAKER (UP TO 20A) POSITIONS TERMINAL BLOCK, MAX. 10AWG DRAWER STYLE, FRONT ACCESS	S1	4	
D2	FPS 48V/40A DISTRIBUTION, 2B 7L SHUNT – QTY 2 BATT BREAKER (UP TO 40A) POSITIONS, 50A/20mV SHUNT; TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS – QTY 7 LOAD BREAKER (UP TO 20A) POSITIONS, DRAWER STYLE, TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS	–48	40	QTY 2 BREAKER (UP TO 40A) POSITIONS TERMINAL BLOCK, MAX. 4AWG REAR ACCESS	50A/20mV SHUNT ONLY	QTY 7 BREAKER (UP TO 20A) POSITIONS TERMINAL BLOCK, MAX. 10AWG DRAWER STYLE, FRONT ACCESS	S1	4	

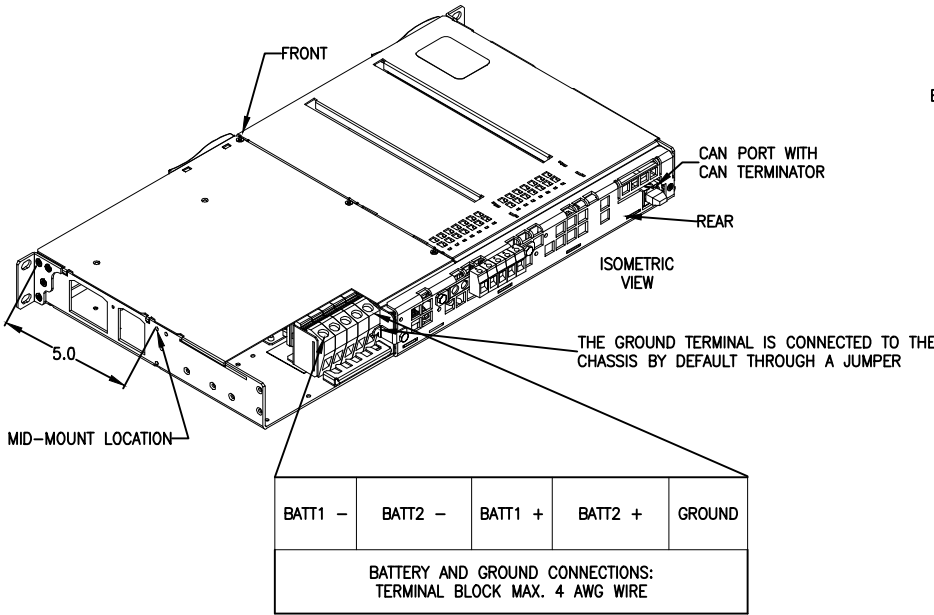
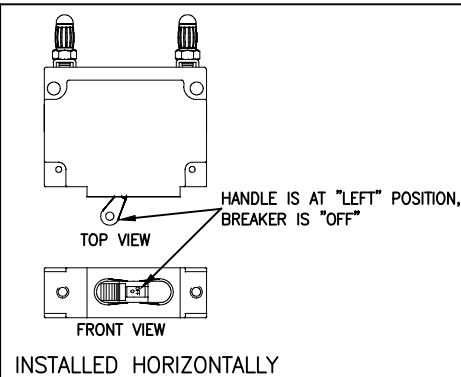
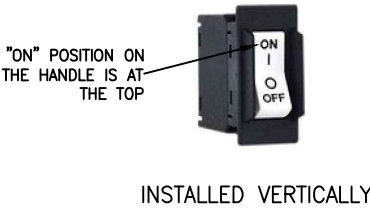


D1, D2 CONNECTION DETAIL



BULLET BREAKER ORIENTATION (FACE SYSTEM):

1. WHEN BREAKER IS INSTALLED VERTICALLY, THE "ON" ON HANDLE IS AT THE TOP
2. WHEN BREAKER IS INSTALLED HORIZONTALLY, THE BREAKER IS "OFF" WHEN THE HANDLE IS AT "LEFT" POSITION



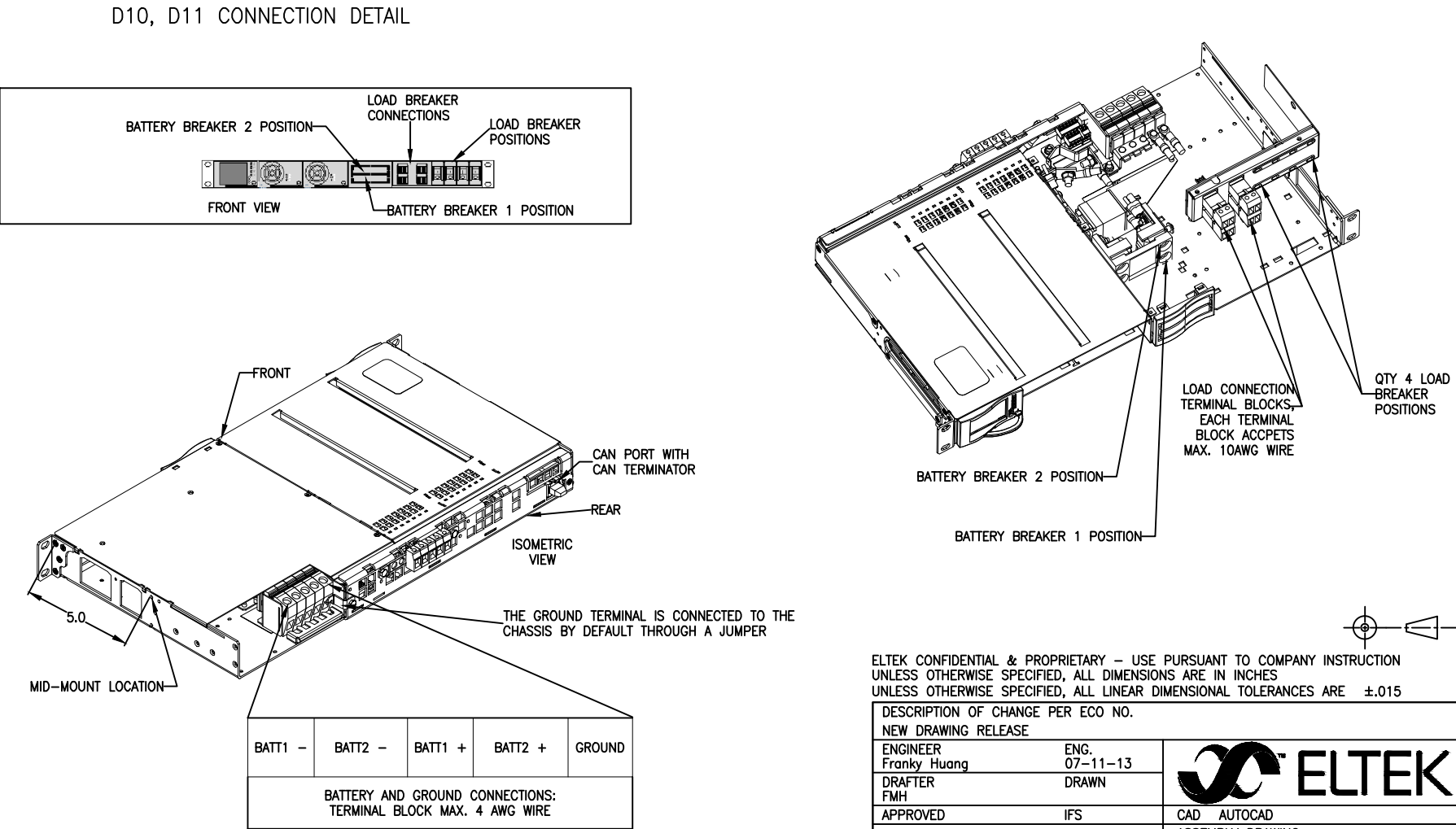
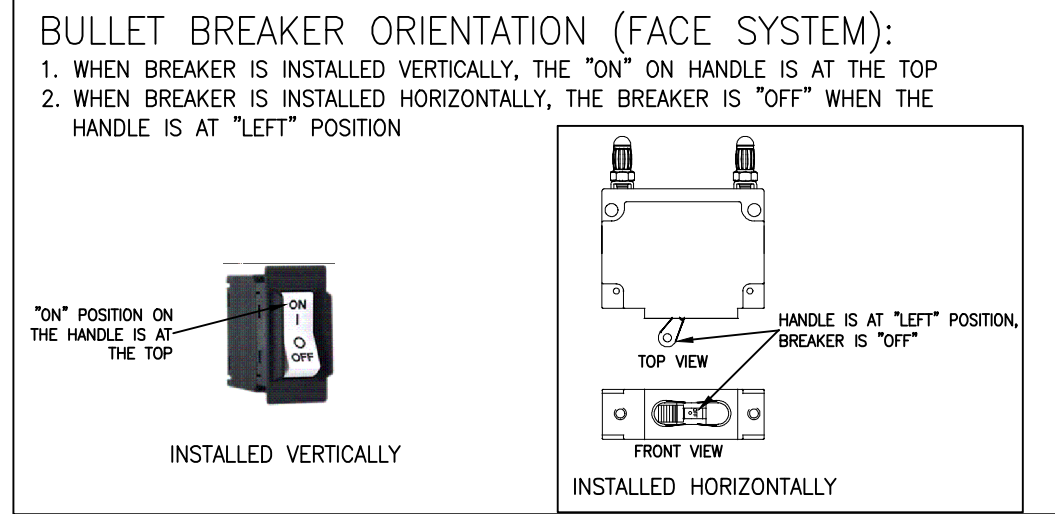
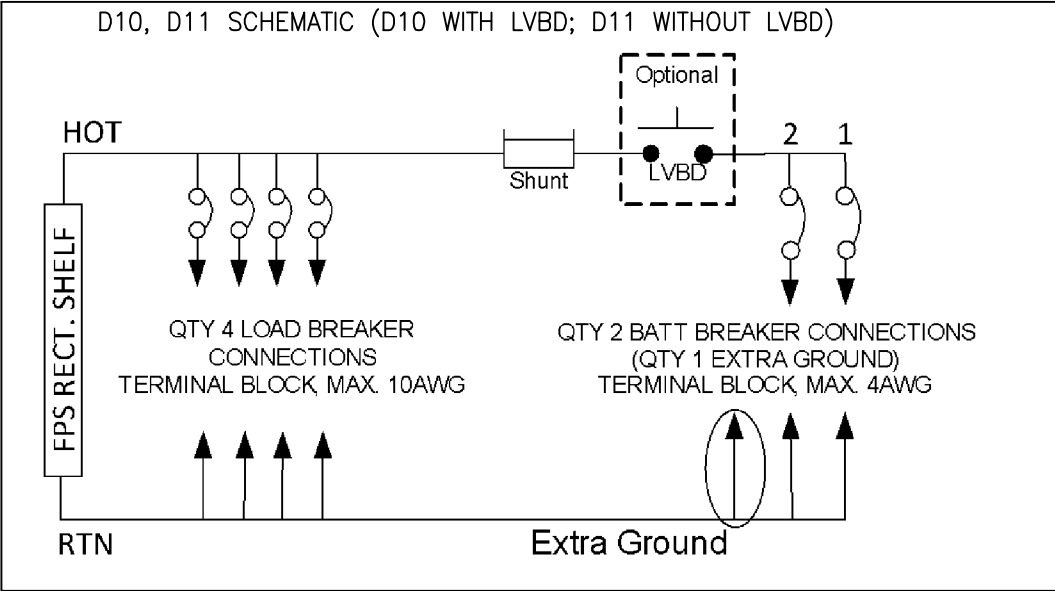
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SECTION 3.1 D10-11 40A 4-BREAKER DISTRIBUTION DETAIL

TABLE 3B 4-BREAKER DISTRIBUTION

GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE	SYSTEM CAPACITY (A)	BATTERY DISTRIBUTION		LOAD DISTRIBUTION	COMPATIBLE RECTIFIER SHELF	EST. WEIGHT (LBS)	NOTE
				BATTERY BREAKER POSITONS & CONNECTIONS	LVBD & SHUNT				
D10	FPS 48V/40A DISTRIBUTION, 2B 4L LVBD - QTY 2 BATT BREAKER (UP TO 40A) POSITIONS, 50A/20mV SHUNT AND 50A LVBD; TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 4 LOAD BREAKER (UP TO 20A) POSITIONS, FRONT ACCESS, TERMINAL BLOCK, MAX. 10AWG	-48	40	QTY 2 BREAKER (UP TO 40A) POSITIONS TERMINAL BLOCK, MAX. 4AWG REAR ACCESS	50A LVBD; 50A/20mV SHUNT	QTY 4 BREAKER (UP TO 20A) POSITIONS TERMINAL BLOCK, MAX. 10AWG FRONT ACCESS	S1	4	
D11	FPS 48V/40A DISTRIBUTION, 2B 4L SHUNT - QTY 2 BATT BREAKER (UP TO 40A) POSITIONS, 50A/20mV SHUNT; TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 4 LOAD BREAKER (UP TO 20A) POSITIONS, FRONT ACCESS, TERMINAL BLOCK, MAX. 10AWG	-48	40	QTY 2 BREAKER (UP TO 40A) POSITIONS TERMINAL BLOCK, MAX. 4AWG REAR ACCESS	50A/20mV SHUNT ONLY	QTY 4 BREAKER (UP TO 20A) POSITIONS TERMINAL BLOCK, MAX. 10AWG FRONT ACCESS	S1	4	



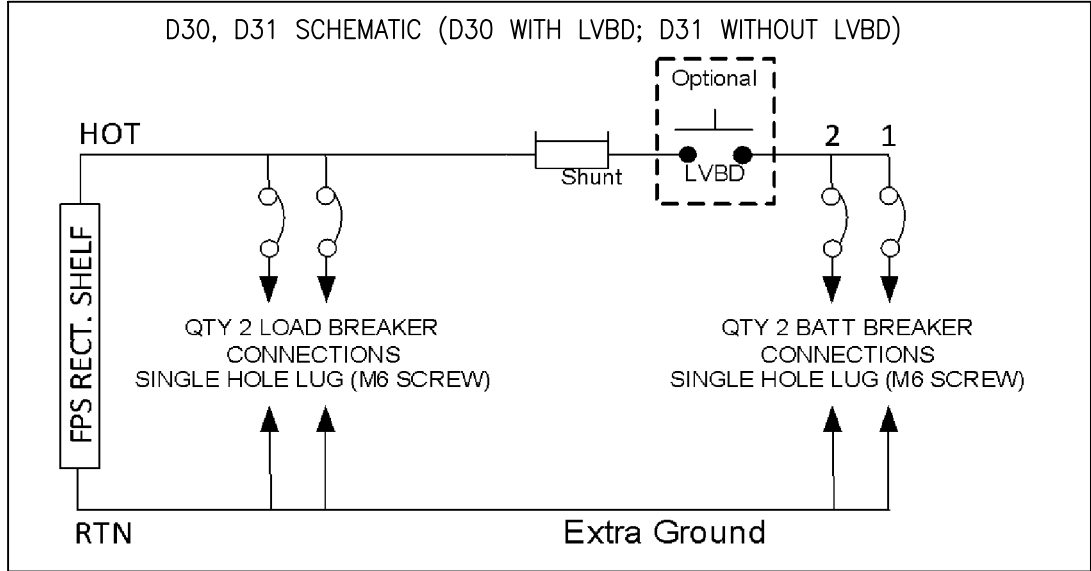
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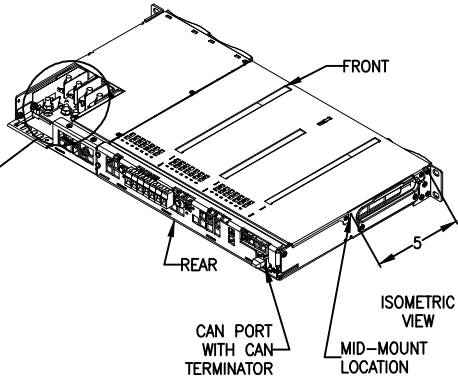
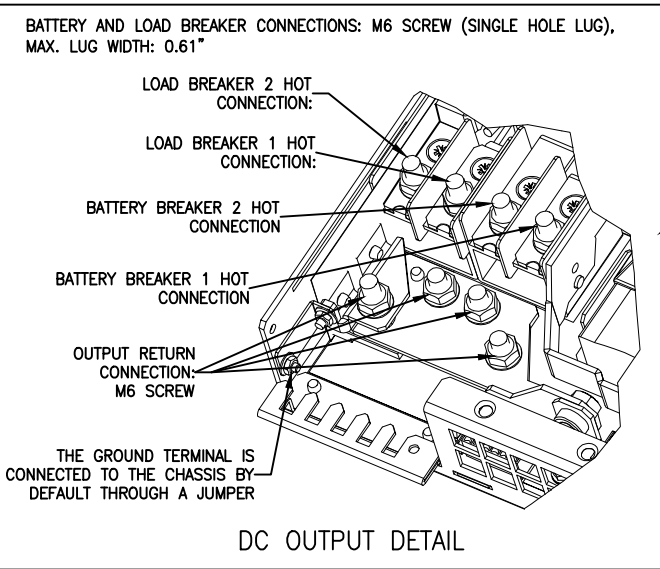
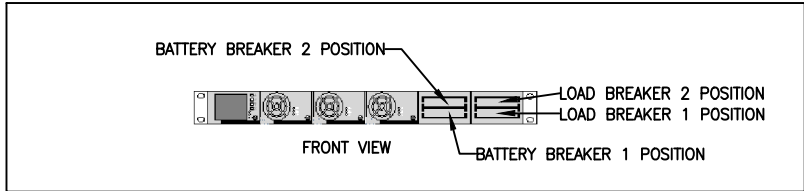
SECTION 3.3 D30–D31 100A 2–BREAKER DISTRIBUTION DETAIL

TABLE 3D 100A 2–BREAKER DISTRIBUTION

GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE	SYSTEM CAPACITY (A)	BATTERY DISTRIBUTION		LOAD DISTRIBUTION	COMPATIBLE RECTIFIER SHELF	EST. WEIGHT (LBS)	NOTE
				BATTERY BREAKER POSITONS & CONNECTIONS	LVBD & SHUNT	LOAD BREAKER POSITIONS & CONNECTIONS			
D30	FPS 48V/800A DISTRIBUTION, 2B 2L LVBD – QTY 2 BATT BREAKER (UP TO 80A) POSITIONS, 100A/20mV SHUNT AND 80A LVBD, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.61", REAR ACCESS – QTY 2 LOAD BREAKER (UP TO 80A) POSITIONS, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.61", REAR ACCESS	–48	80	QTY 2 BREAKER (UP TO 80A) POSITIONS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	80A LVBD; 100A/20mV SHUNT	QTY 2 BREAKER (UP TO 80A) POSITIONS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	S2	4	
D31	FPS 48V/800A DISTRIBUTION, 2B 2L SHUNT – QTY 2 BATT BREAKER (UP TO 80A) POSITIONS, 100A/20mV SHUNT, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.61", REAR ACCESS – QTY 2 LOAD BREAKER (UP TO 80A) POSITIONS, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.61", REAR ACCESS	–48	80	QTY 2 BREAKER (UP TO 80A) POSITIONS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	100A/20mV SHUNT ONLY	QTY 2 BREAKER (UP TO 80A) POSITIONS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	S2	4	

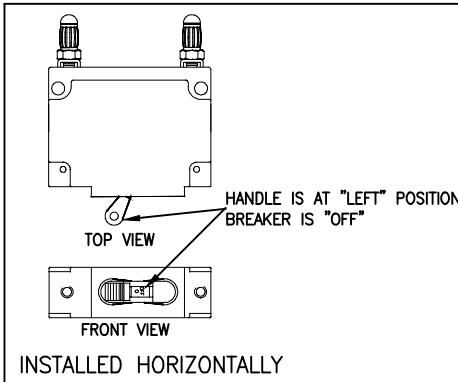
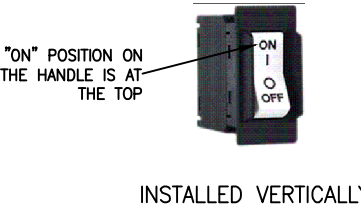


D30, D31 CONNECTION DETAIL



BULLET BREAKER ORIENTATION (FACE SYSTEM):

1. WHEN BREAKER IS INSTALLED VERTICALLY, THE "ON" ON HANDLE IS AT THE TOP
2. WHEN BREAKER IS INSTALLED HORIZONTALLY, THE BREAKER IS "OFF" WHEN THE HANDLE IS AT "LEFT" POSITION



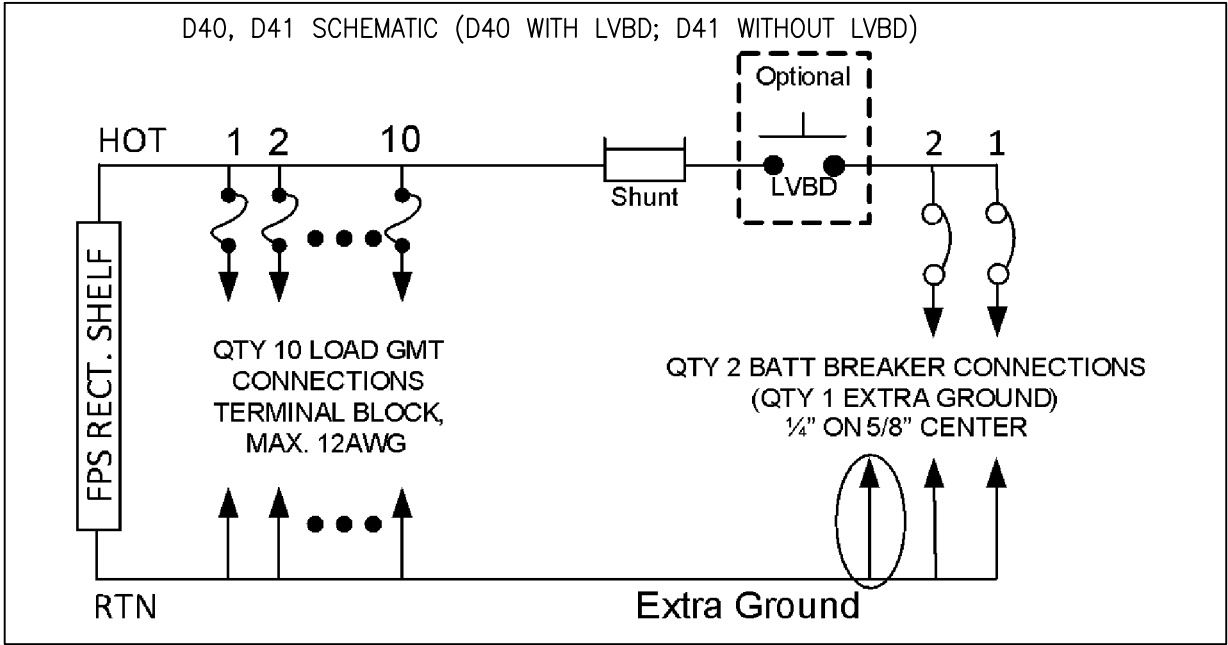
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SECTION 3.4 D40-41 100A 10-GMT DISTRIBUTION DETAIL

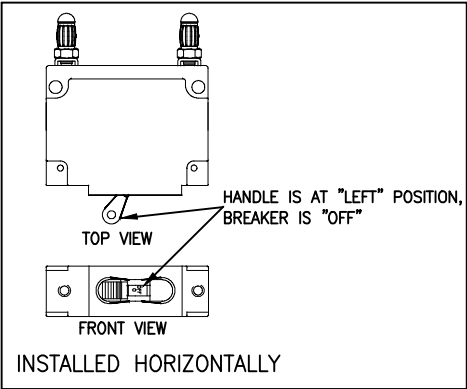
TABLE 3E 100A 10-GMT DISTRIBUTION

GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE	SYSTEM CAPACITY (A)	BATTERY DISTRIBUTION		LOAD DISTRIBUTION	COMPATIBLE RECTIFIER SHELF	EST. WEIGHT (LBS)	NOTE
				BATTERY BREAKER POSITONS & CONNECTIONS	LVBD & SHUNT	LOAD BREAKER POSITIONS & CONNECTIONS			
D40	FPS 48V/80A DISTRIBUTION, 2B 10GMT LVBD - QTY 2 BATT BREAKER (UP TO 80A) POSITIONS, 100A/20mV SHUNT AND 80A LVBD; ¼" ON ⅝" CENTER. REAR ACCESS - QTY 10 GMT FUSE (UP TO 10A) POSITIONS, TERMINAL BLOCK, MAX. 12AWG, SIDE ACCESS.	-48	80	QTY 2 BREAKER (UP TO 80A) POSITIONS ¼" ON ⅝" CENTER REAR ACCESS	80A LVBD; 100A/20mV SHUNT	QTY 10 GMT FUSE (UP TO 10A) POSITIONS TERMINAL BLOCK, MAX. 12AWG SIDE ACCESS	S3	4	
D41	FPS 48V/80A DISTRIBUTION, 2B 10GMT SHUNT - QTY 2 BATT BREAKER (UP TO 80A) POSITIONS, 100A/20mV SHUNT AND 125A LVBD; ¼" ON ⅝" CENTER. REAR ACCESS - QTY 10 GMT FUSE (UP TO 10A) POSITIONS, TERMINAL BLOCK, MAX. 12AWG, SIDE ACCESS.	-48	80	QTY 2 BREAKER (UP TO 80A) POSITIONS ¼" ON ⅝" CENTER REAR ACCESS	100A/20mV SHUNT ONLY	QTY 10 GMT FUSE (UP TO 10A) POSITIONS TERMINAL BLOCK, MAX. 12AWG SIDE ACCESS	S3	4	

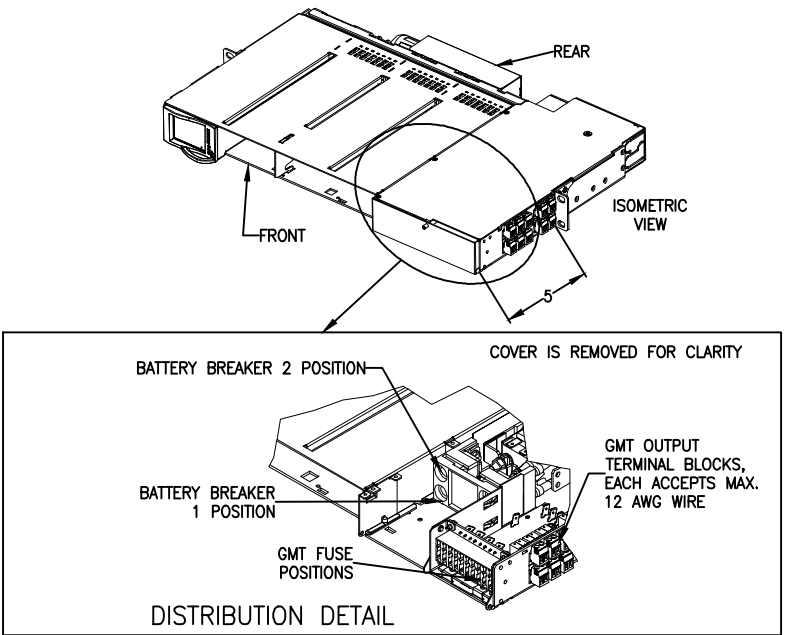
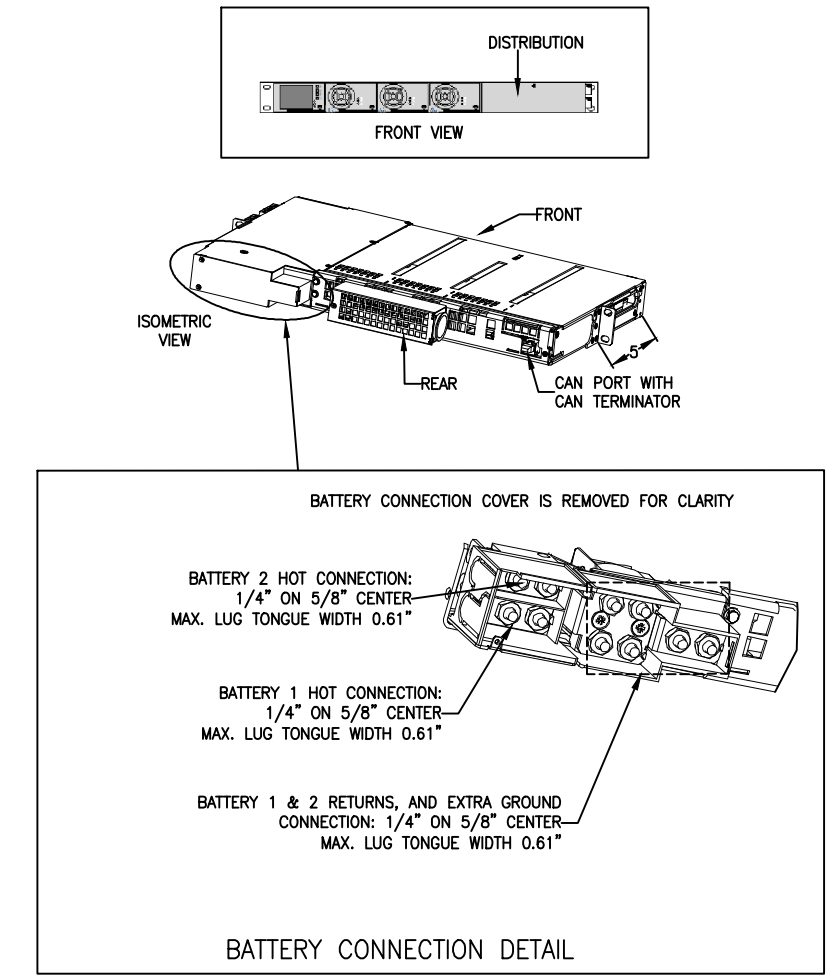


BULLET BREAKER ORIENTATION (FACE SYSTEM):

1. WHEN BREAKER IS INSTALLED HORIZONTALLY, THE BREAKER IS "OFF" WHEN THE HANDLE IS AT "LEFT" POSITION



D40, D41 CONNECTION DETAIL

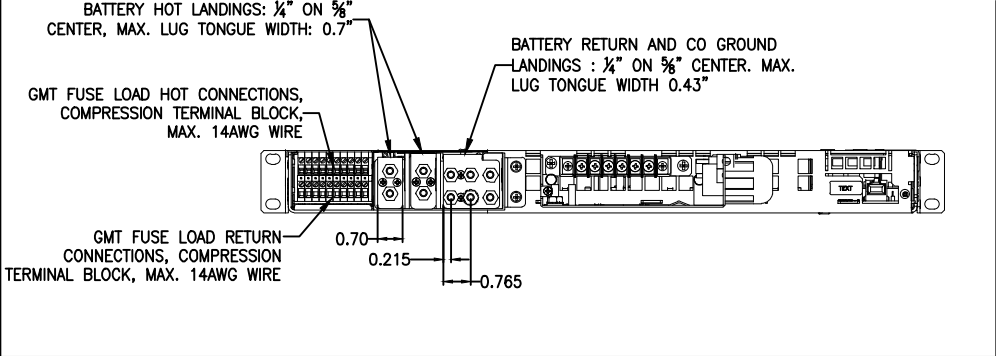
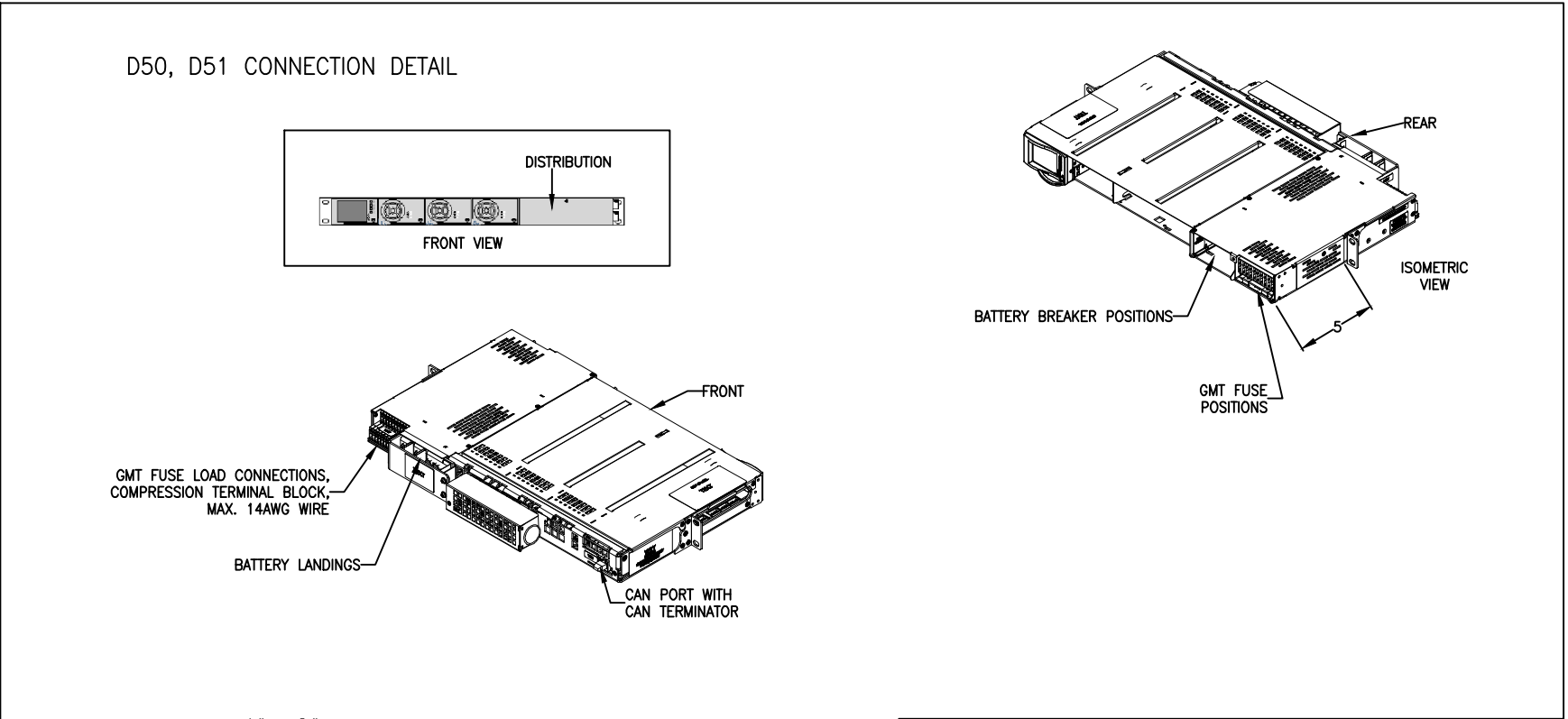
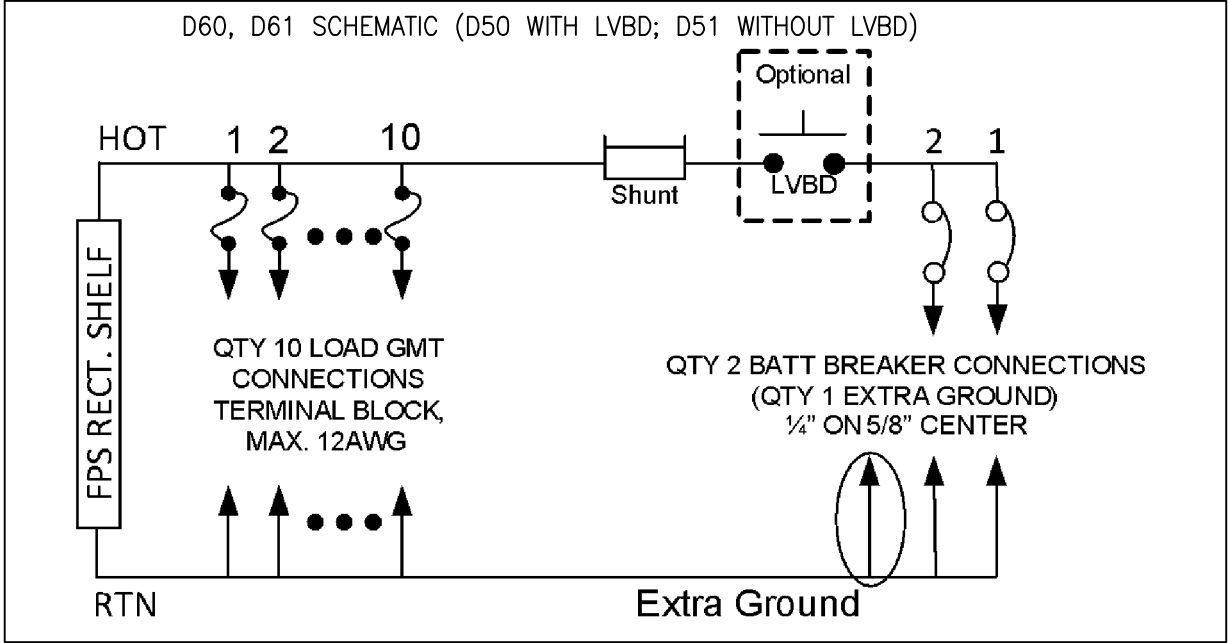


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		SECTION 3.4
		DRAWING NUMBER 2147987

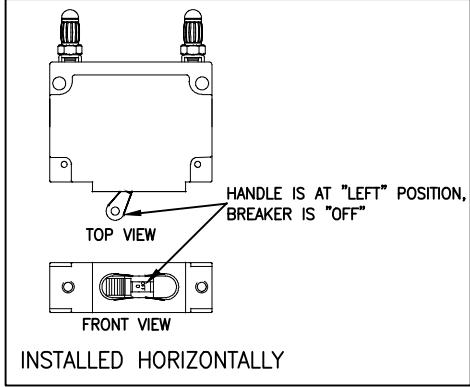
SECTION 3.5 D50-51 100A 10-GMT DISTRIBUTION REAR WIRE DETAIL

TABLE 3F 100A 10--GMT DISTRIBUTION									
GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE	SYSTEM CAPACITY (A)	BATTERY DISTRIBUTION		LOAD DISTRIBUTION	COMPATIBLE RECTIFIER SHELF	EST. WEIGHT (LBS)	NOTE
				BATTERY BREAKER POSITONS & CONNECTIONS	LVBD & SHUNT	LOAD BREAKER POSITIONS & CONNECTIONS			
D50	FPS 48V/80A DISTRIBUTION, 2B 10GMT LVBD — QTY 2 BATT BREAKER (UP TO 80A) POSITIONS, 100A/20mV SHUNT AND 80A LVBD; ¼" ON ⅝" CENTER, MAX. LUG TONGUE WIDTH: 0.7" FOR HOT, 0.43" FOR RETURN REAR ACCESS — QTY 10 GMT FUSE (UP TO 10A) POSITIONS, TERMINAL BLOCK, MAX. 14AWG, REAR ACCESS.	—48	80	QTY 2 BREAKER (UP TO 80A) POSITIONS ¼" ON ⅝" CENTER, MAX. LUG TONGUE WIDTH: 0.7" FOR HOT, 0.43" FOR RETURN REAR ACCESS	80A LVBD; 100A/20mV SHUNT	QTY 10 GMT FUSE (UP TO 10A) POSITIONS TERMINAL BLOCK, MAX. 14AWG REAR ACCESS	S3	4	
D51	FPS 48V/80A DISTRIBUTION, 2B 10GMT SHUNT — QTY 2 BATT BREAKER (UP TO 80A) POSITIONS, 100A/20mV SHUNT AND 125A LVBD; ¼" ON ⅝" CENTER. MAX. LUG TONGUE WIDTH: 0.7" FOR HOT, 0.43" FOR RETURN. REAR ACCESS — QTY 10 GMT FUSE (UP TO 10A) POSITIONS, TERMINAL BLOCK, MAX. 14AWG, REAR ACCESS.	—48	80	QTY 2 BREAKER (UP TO 80A) POSITIONS ¼" ON ⅝" CENTER, MAX. LUG TONGUE WIDTH: 0.7" FOR HOT, 0.43" FOR RETURN REAR ACCESS	100A/20mV SHUNT ONLY	QTY 10 GMT FUSE (UP TO 10A) POSITIONS TERMINAL BLOCK, MAX. 14AWG REAR ACCESS	S3	4	



BULLET BREAKER ORIENTATION (FACE SYSTEM):

1. WHEN BREAKER IS INSTALLED HORIZONTALLY, THE BREAKER IS "OFF" WHEN THE HANDLE IS AT "LEFT" POSITION

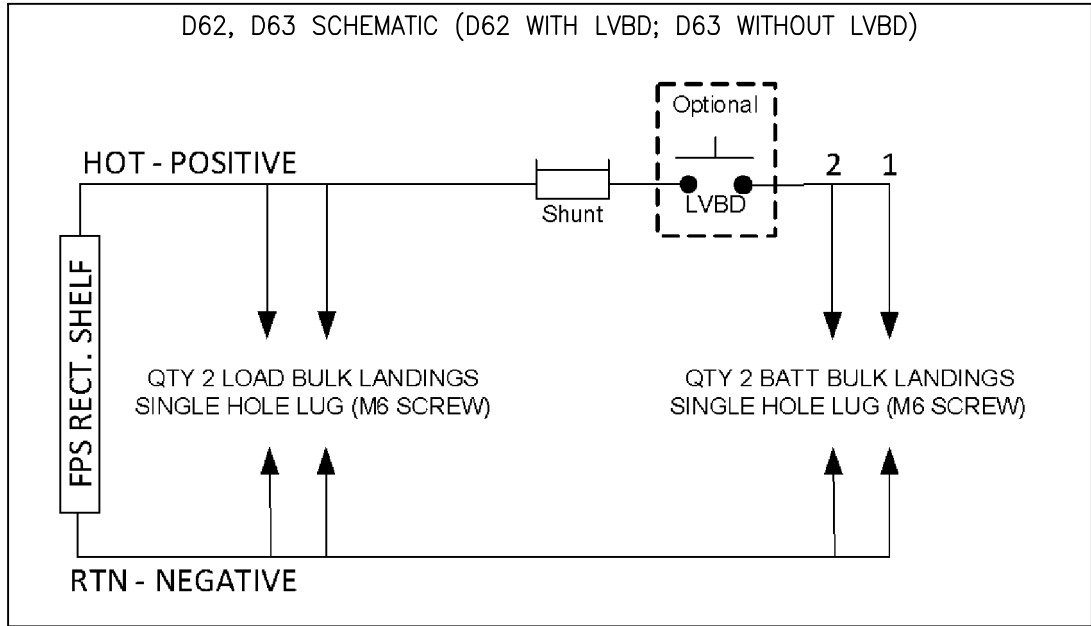
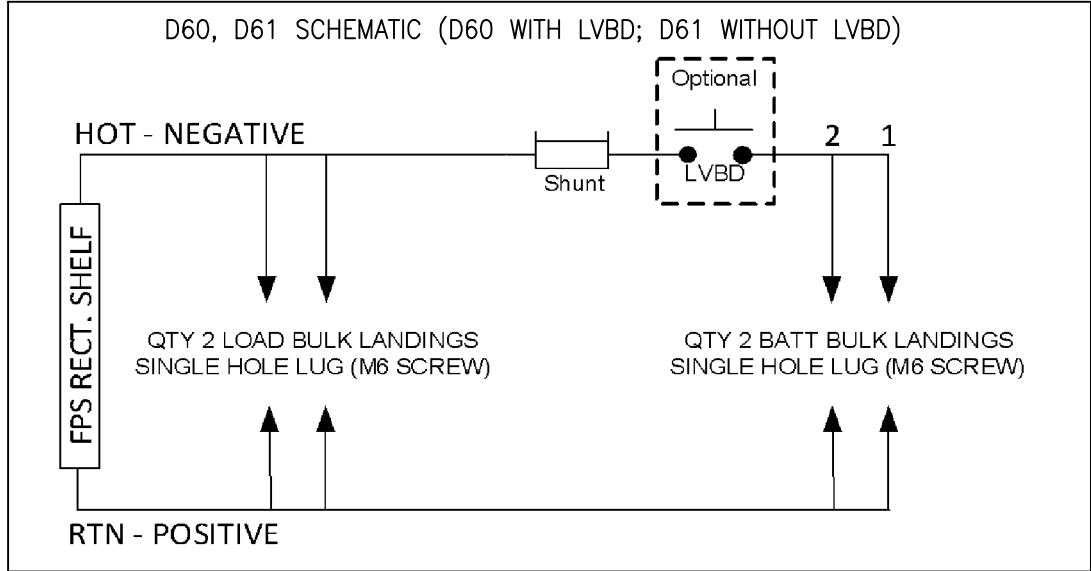


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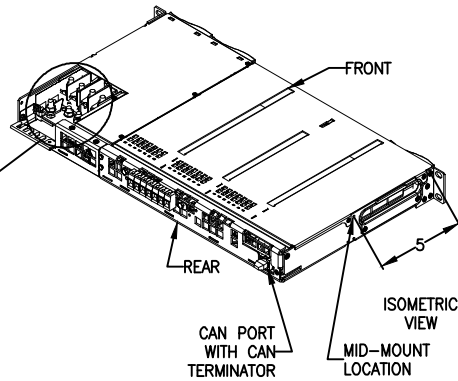
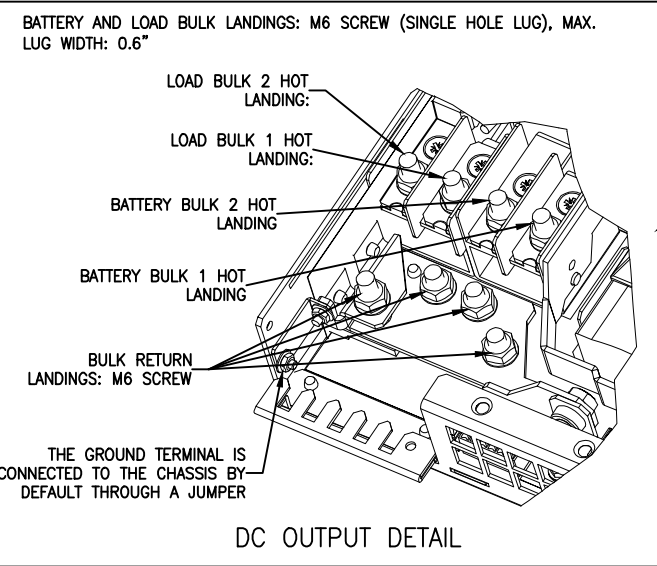
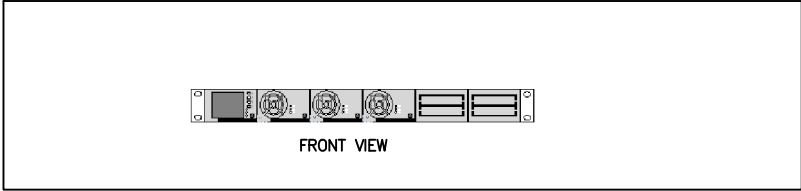
DESCRIPTION OF CHANGE PER ECO NO.		
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ENGINEER Franky Huang	ENG. 02-11-14	
DRAFTER FMH	DRAWN	
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SECTION 3.6 D60–D63 100A BULK OUTPUT DISTRIBUTION DETAIL

TABLE 3F 100A BULK OUTPUT DISTRIBUTION									
GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE	SYSTEM CAPACITY (A)	BATTERY BULK OUTPUT DISTRIBUTION		LOAD BULK OUTPUT DISTRIBUTION	COMPATIBLE RECTIFIER SHELF	EST. WEIGHT (LBS)	NOTE
				BATTERY BULK OUTPUT LANDINGS	LVBD & SHUNT	LOAD BREAKER POSITIONS & CONNECTIONS			
D60	FPS 100A BULK OUTPUT NEGATIVE DISTRIBUTION, 2B 2L LANDINGS, SHUNT & LVBD, – QTY 2 BATT BULK OUTPUT LANDINGS, 100A/20mV SHUNT AND 150A LVBD IN NEGATIVE LEG, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS – QTY 2 LOAD BULK OUPUT LANDINGS, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS	–48	100	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	150A LVBD; 100A/20mV SHUNT	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	S2	4	
D61	FPS 100A BULK OUTPUT NEGATIVE DISTRIBUTION, 2B 2L LANDINGS, SHUNT ONLY, – QTY 2 BATT BULK OUTPUT LANDINGS, 100A/20mV SHUNT IN NEGATIVE LEG, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS – QTY 2 LOAD BULK OUPUT LANDINGS, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS	–48	100	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	100A/20mV SHUNT ONLY	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	S2	4	
D62	FPS 100A BULK OUTPUT POSITIVE DISTRIBUTION, 2B 2L LANDINGS, SHUNT & LVBD, – QTY 2 BATT BULK OUTPUT LANDINGS, 100A/20mV SHUNT AND 150A LVBD IN POSITIVE LEG, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS – QTY 2 LOAD BULK OUPUT LANDINGS, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS	+24	100	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	150A LVBD; 100A/20mV SHUNT	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	S2	4	
D63	FPS 100A BULK OUTPUT NEGATIVE DISTRIBUTION, 2B 2L LANDINGS, SHUNT ONLY, – QTY 2 BATT BULK OUTPUT LANDINGS, 100A/20mV SHUNT IN NEGATIVE LEG, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS – QTY 2 LOAD BULK OUPUT LANDINGS, M6 SCREW (SINGLE HOLE LUG) CONNECTION, MAX. LUG TONGUE WIDTH 0.6", REAR ACCESS	+24	100	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	100A/20mV SHUNT ONLY	QTY 2 LANDINGS M6 SCREW (SINGLE HOLE LUG) CONNECTION REAR ACCESS	S2	4	



D60, D61, D62, D63 CONNECTION DETAIL



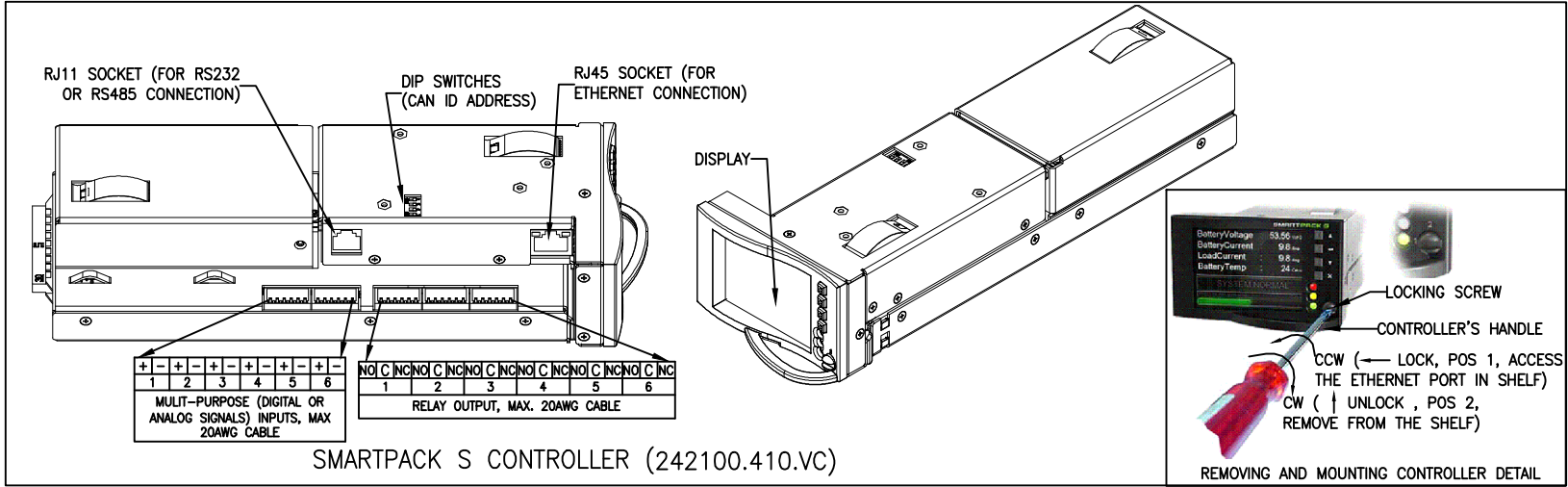
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APPROVED	IFS	CAD AUTOCAD
		ASSEMBLY DRAWING
		FPS PRODUCT GUIDE
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		SECTION 3.6
		DRAWING NUMBER 2147987

SECTION 4.0 CONTROLLER

TABLE 4A CONTROLLER SPARE PART

PART NUMBER	DESCRIPTION	INPUT VOLTAGE	# OF RELAY OUTPUT	# OF INPUT	AGENCY APPROVAL	WIDTH (IN)	DEPTH (IN)	HEIGHT (RU)	EST. WEIGHT (Lbs)	CLEI/CPR	NOTE
242100.410	SMARTPACK S CONTROLLER - DISPLAY: GRAPHICAL 2.2" TFT HIGH CONTRAST, HIGH RESOLUTION COLOR DISPLAY - ETHERNET FOR REMOTE OR LOCAL MONITORING AND CONTROL VIA WEB BROWSER - SNMP PROTOCOL WITH TRAP, SET AND GET OVER ETHERNET. EMAIL OF TRAP ALARMS - QTY 6 PROGRAMMABLE RELAY OUTPUTS - QTY 6 PROGRAMMABLE MULTIPURPOSE (DIGITAL OR ANALOG SIGNALS) INPUTS - COMPREHENSIVE LOGGING - AUTOMATIC BATTERY MONITORING AND TEST, BATTERY QUALITY INDICATION BASED ON TEST RESULTS	10-75VDC	QTY 6 ACCEPT MAX. 20AWG CABLE	TOTAL QTY 6 INPUTS (MAX. 20AWG CABLE): - INPUT #1-6: DIGITAL INPUT OR - INPUT #1-4: ANALOG VOLTAGE (±0-10V) OR ±0-20mA CURRENT MEASUREMENT OR TEMPERATURE SENSE INPUT - INPUT #5-6: ANALOG VOLTAGE (0-75V) SYMMETRY MEASUREMENT	CE, UL RoHS COMPLIANT	2.8	8.7	1	1	AVAILABLE UPON REQUEST	
242100.410.00001	SMARTPACK S CONTROLLER (242100.410) WITH 00001 PROFILE: 48V FPS STANDARD CONFIGURATION WITH LVBD FOR US REAR WIRE VERSION - SAME AS 242100.410 DESCRIPTION - 00001 PROFILE: 48V FPS 1U US VERSION STANDARD CONFIGURATION WITH LVBD	10-75VDC	QTY 6 ACCEPT MAX. 20AWG CABLE	TOTAL QTY 6 INPUTS (MAX. 20AWG CABLE): - INPUT #1-6: DIGITAL INPUT OR - INPUT #1-4: ANALOG VOLTAGE (±0-10V) OR ±0-20mA CURRENT MEASUREMENT OR TEMPERATURE SENSE INPUT - INPUT #5-6: ANALOG VOLTAGE (0-75V) SYMMETRY MEASUREMENT	CE, UL RoHS COMPLIANT	2.8	8.7	1	1	AVAILABLE UPON REQUEST	
242100.410.00002	SMARTPACK S CONTROLLER (242100.410) WITH 00002 PROFILE: 48V FPS STANDARD CONFIGURATION WITHOUT LVBD FOR US REAR WIRE VERSION - SAME AS 242100.410 DESCRIPTION - 00002 PROFILE: 48V FPS 1U US VERSION STANDARD CONFIGURATION WITHOUT LVBD	10-75VDC	QTY 6 ACCEPT MAX. 20AWG CABLE	TOTAL QTY 6 INPUTS (MAX. 20AWG CABLE): - INPUT #1-6: DIGITAL INPUT OR - INPUT #1-4: ANALOG VOLTAGE (±0-10V) OR ±0-20mA CURRENT MEASUREMENT OR TEMPERATURE SENSE INPUT - INPUT #5-6: ANALOG VOLTAGE (0-75V) SYMMETRY MEASUREMENT	CE, UL RoHS COMPLIANT	2.8	8.7	1	1	AVAILABLE UPON REQUEST	
242100.410.00003	SMARTPACK S CONTROLLER (242100.410) WITH 00003 PROFILE: 24V FPS STANDARD CONFIGURATION WITH LVBD FOR US REAR WIRE VERSION - SAME AS 242100.410 DESCRIPTION - 00003 PROFILE: 24V FPS 1U US VERSION STANDARD CONFIGURATION WITH LVBD	10-75VDC	QTY 6 ACCEPT MAX. 20AWG CABLE	TOTAL QTY 6 INPUTS (MAX. 20AWG CABLE): - INPUT #1-6: DIGITAL INPUT OR - INPUT #1-4: ANALOG VOLTAGE (±0-10V) OR ±0-20mA CURRENT MEASUREMENT OR TEMPERATURE SENSE INPUT - INPUT #5-6: ANALOG VOLTAGE (0-75V) SYMMETRY MEASUREMENT	CE, UL RoHS COMPLIANT	2.8	8.7	1	1	AVAILABLE UPON REQUEST	
242100.410.00004	SMARTPACK S CONTROLLER (242100.410) WITH 00004 PROFILE: 24V FPS STANDARD CONFIGURATION WITHOUT LVBD FOR US REAR WIRE VERSION - SAME AS 242100.410 DESCRIPTION - 00004 PROFILE: 24V FPS 1U US VERSION STANDARD CONFIGURATION WITHOUT LVBD	10-75VDC	QTY 6 ACCEPT MAX. 20AWG CABLE	TOTAL QTY 6 INPUTS (MAX. 20AWG CABLE): - INPUT #1-6: DIGITAL INPUT OR - INPUT #1-4: ANALOG VOLTAGE (±0-10V) OR ±0-20mA CURRENT MEASUREMENT OR TEMPERATURE SENSE INPUT - INPUT #5-6: ANALOG VOLTAGE (0-75V) SYMMETRY MEASUREMENT	CE, UL RoHS COMPLIANT	2.8	8.7	1	1	AVAILABLE UPON REQUEST	



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DESCRIPTION OF CHANGE PER ECO NO.
NEW DRAWING RELEASE

ENGINEER Franky Huang	ENG. 08-20-14
DRAFTER FMH	DRAWN
APPROVED	IFS

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CONTROLLER

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SECTION 4.0–CONTINUED CONTROLLER

TABLE 4B SMARTPACK S CONTROLLER ACCESSORY											
PART NUMBER	DESCRIPTION	RELAY OUTPUT	CONFIGURABLE INPUT	CAN POWER OUTPUT/CONSUMPTION	AGENCY APPROVAL	WIDTH (IN)	DEPTH (IN)	HEIGHT (RU)	EST. WEIGHT (LBS)	CLEI / CPR	NOTE
242100.304	I/O MONITOR1 (FOR OUTDOOR APPLICATION) POWERED BY CAN BUS, 6 CONFIGURABLE INPUTS AND 6 CONFIGURABLE RELAY OUTPUTS	6	6 CONFIGURABLE INPUTS	160mA CONSUMPTION	CE, UL RoHS COMPLIANT	6.12	2.78	1.22	0.5	NO	
242100.502.VC	I/O MONITOR2 POWERED BY CAN BUS, 6 CONFIGURABLE INPUTS AND 6 CONFIGURABLE RELAY OUTPUTS	6	6 CONFIGURABLE INPUTS	160mA CONSUMPTION	CE, UL RoHS COMPLIANT	5.4	2.3	1.2	0.5	YES	
230700	BATTERY MONITOR CAN BUS NODE KIT, MONITORING BATTERY SYMMETRY VOLTAGE, TEMPERATURE, BATTERY FUSE ALARM, BATTERY CURRENT. INCLUDES: BATTERY MONITOR NODE (242100.300.VC), QTY 4 1.5M SYMMETRY CABLES, QTY 1 10M CAN BUS CABLE	N/A	4 x SYMMETRY VOLT, 1 x FUSE FAILURE DETECT, 1 x CURRENT SENSOR	90mA CONSUMPTION	CE, UL RoHS COMPLIANT	2.83	2.13	0.98	0.5	NO	
242100.301.VC	LOAD MONITOR MODULE POWERED BY CAN BUS, MEASURE 8 SHUNTS INPUTS	N/A	8 x CONFIGURABLE (FUSE FAILURE) 8 x CURRENT SENSE	120mA CONSUMPTION	CE, UL, NEBS RoHS COMPLIANT	6.12	2.78	1.22	0.5	YES	
242100.303.VC	CAN POWER MODULE KIT PROVIDES INSOLATED OR ADDITIONAL CAN BUS POWER, OUTPUT ±15V, 500mA, DUAL RJ45 CONNECTORS	N/A	N/A	OUTPUT 500mA	CE, UL RoHS COMPLIANT	5.23	4.25	1.59	1	YES	

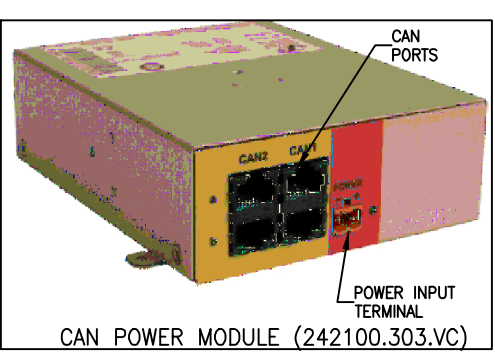
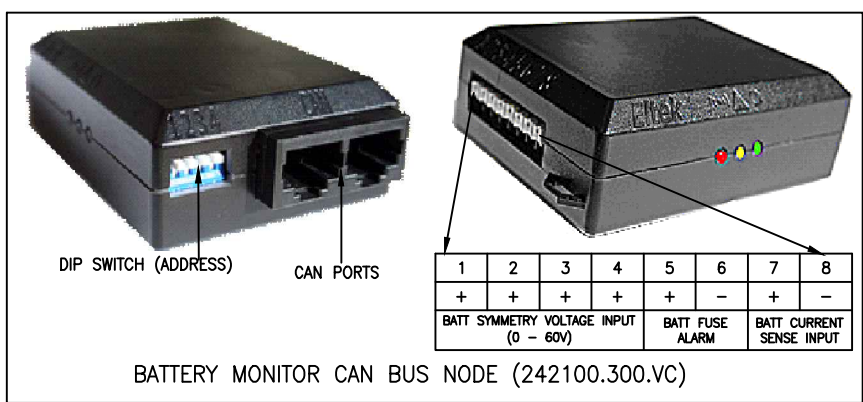
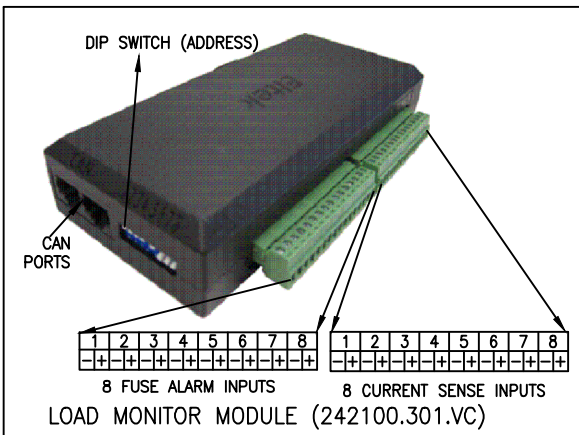
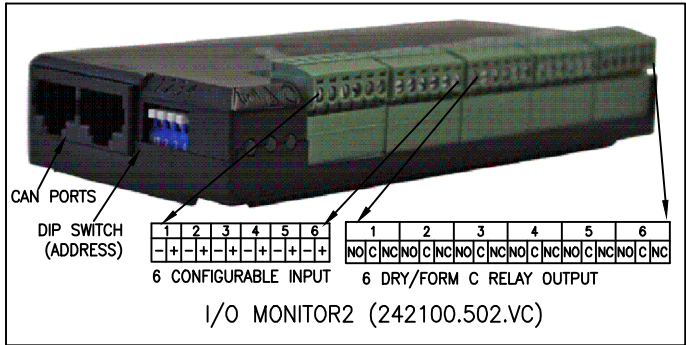


TABLE 4C SMARTPACKS TEMPERATURE SENSE CABLE

P/N	DESCRIPTION	LENGTH (FT)	NOTE
289747	TEMP SENSE CABLE, 470K NTC, 5 FT	5	
258160	TEMP SENSE CABLE, 470K NTC, 10 FT	10	
281206	TEMP SENSE CABLE, 470K NTC, 33 FT	33	
284589	TEMP SENSE CABLE, 470K NTC, 98 FT	98	
303618	TEMP SENSE CABLE, 470K NTC, 33 FT, M8 LUG	33	
303619	TEMP SENSE CABLE, 470K NTC, 98 FT, M8 LUG	98	
303620	TEMP SENSE CABLE, 470K NTC, 10 FT, ¼" LUG	10	
303621	TEMP SENSE CABLE, 470K NTC, 33 FT, ¼" LUG	33	
303622	TEMP SENSE CABLE, 470K NTC, 98 FT, ¼" LUG	98	

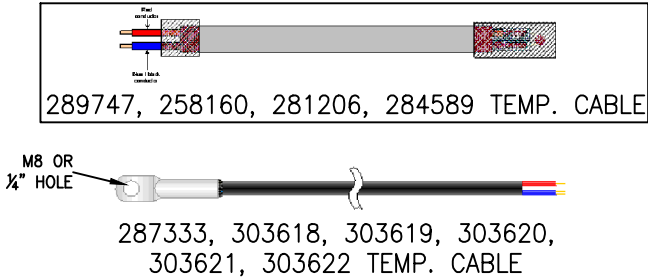


TABLE 4D CABLES ACCESSORIES FOR SMARTPACKS

P/N	DESCRIPTION	LENGTH (FT)	NOTE
105681	CAN END TERMINATION PLUG	N/A	
327341	CAN-BUS CABLE, 1x90DEG FLAT RJ45 TO RJ45, 5FT	5	
327342	CAN-BUS CABLE, 1x90DEG FLAT RJ45 TO RJ45, 10FT	10	
327343	CAN-BUS CABLE, 1x90DEG FLAT RJ45 TO RJ45, 25FT	25	
306942	CAN-BUS CABLE, 1x90DEG FLAT RJ45 TO RJ45, 31"	0.97	
297606	CAN-BUS CABLE, 1x90DEG FLAT RJ45 TO RJ45, 6.6'	6.6	
317349	CAN-BUS CABLE, 1x90DEG FLAT RJ45 TO RJ45, 13'	13	

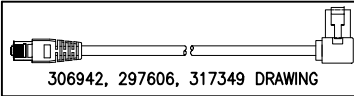
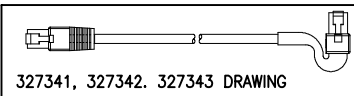
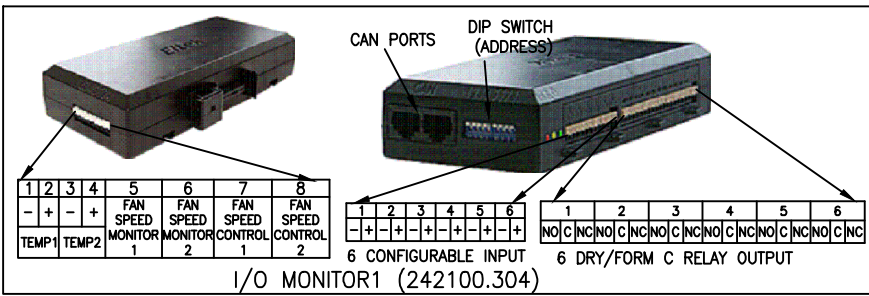


TABLE 4E I/O MONITOR1 TEMP SENSE CABLE

P/N	DESCRIPTION	LENGTH (FT)	NOTE
239359	TEMP SENSE CABLE AD592, 6.6FT (2M)	6.6	
240022	TEMP SENSOR CABLE, AD592, 10FT (3M)	10	
279724	TEMP SENSE CABLE AD592, 16.4FT (5M)	16.4	



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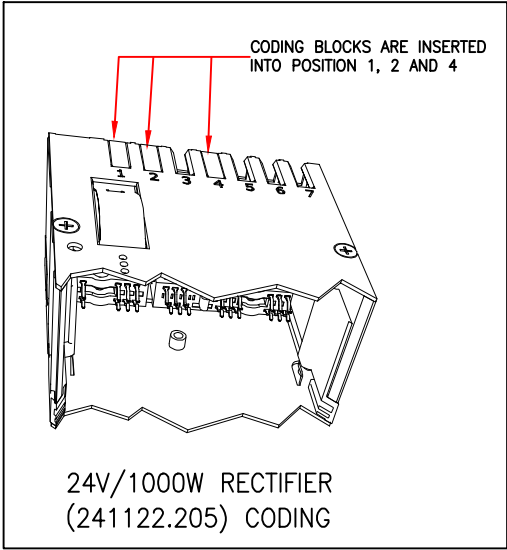
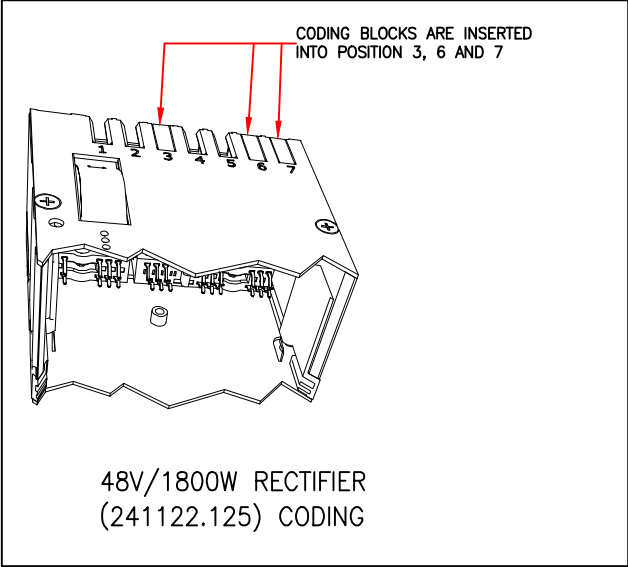
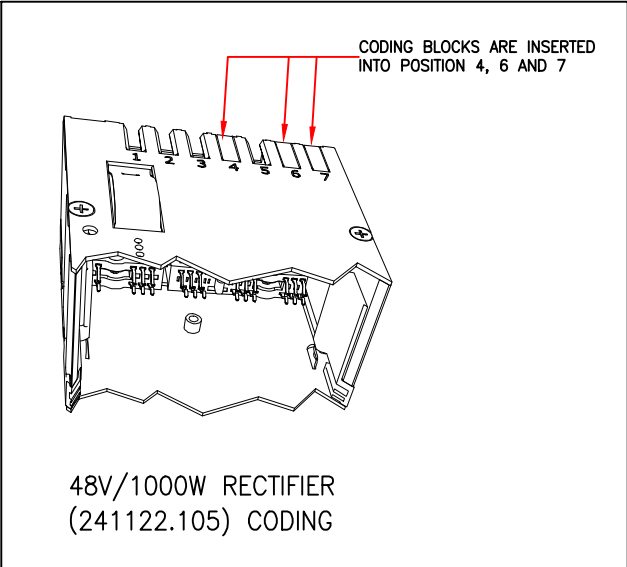
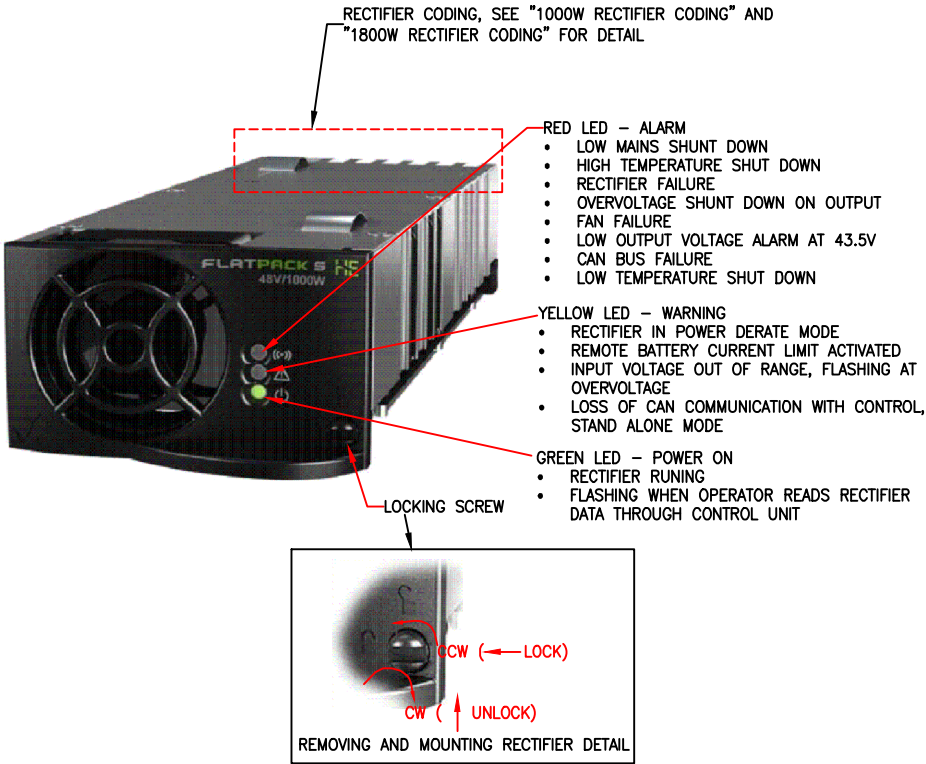
DESCRIPTION OF CHANGE PER ECO NO.
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SECTION 5.0 RECTIFIER

TABLE 5 FLATPACK S RECTIFIER

PART NUMBER	DESCRIPTION	NOMINAL INPUT & INPUT RANGE	MAX. INPUT CURRENT (A)	OUTPUT VOLTAGE & RANGE (VDC)	OUTPUT POWER @NOMINAL INPUT	OUTPUT POWER(W)/ OUTPUT CURRENT(A)	EFFICIENCY	AGENCY APPROVAL	WIDTH (IN)	DEPTH (IN)	HEIGHT (RU)	EST. WEIGHT (LBS)	BTU/HR AT NOMINAL INPUT	ENERGY STAR	CLEI / CPR	NOTE
241122.105 241122.105.VC	FLATPACK S 48V/1000W RECTIFIER - NOMINAL INPUT: 185–270VAC OR 185–250VDC, 1000W OUTPUT; MAX AC INPUT CURRENT 6.0A - INPUT RANGE: 85–300VAC OR 85–250VDC; OUTPUT POWER LINEARLY DERATES FROM 1000W @185VAC TO 420W @ 85VAC - OUPUT: 48V (43.5–57.6VDC), 1000W, MAX. OUTPUT CURRENT: 20.9A @ 48VDC, - EFFICIENCY: 95.5%; >95% @ 40–100% LOAD; FAN COOLED (FRONT TO BACK) - OPERATING TEMPERATURE: –40 TO +85°C; OUTPUT POWER DERATES LINEARLY FROM 1000W @ 45°C TO 600W @ 85°C. SHUTDOWN OVER 85°C. - WEIGHT 1.9 Lbs	185–270VAC OR 185–250VDC 85–300VAC OR 85–250VDC	6.0	48 VDC 43.5–57.6 VDC	20.9A @ 220VAC (VDC) 12A @ 110VAC (VDC)	1000W/20.9A (185–270VAC OR 185–250VDC)) 420W–1000W/8.75A–20.9A (85–185VAC OR 85–250VDC)	UP TO 95.5%	CE, UL, RoHS COMPLIANT	2.83	8.27	1	1.9	96 @ 50% LOAD 200 @ 100% LOAD	YES	YES	
241122.125 241122.125.VC	FLATPACK S 48V/1800W HE RECTIFIER - NOMINAL INPUT: 195–277VAC OR 195–250VDC, 1800W OUTPUT; MAX AC INPUT CURRENT 10.4A - INPUT RANGE: 85–305VAC OR 85–250VDC; OUTPUT POWER LINEARLY DERATES FROM 1800W @195VAC TO 700W @ 85VAC - OUPUT: 48V (43.5–57.6VDC), 1800W, MAX. OUTPUT CURRENT: 37.5A @ 48VDC, - EFFICIENCY: 95.8%; >95% @ 25–80% LOAD; FAN COOLED (FRONT TO BACK) - OPERATING TEMPERATURE: –40 TO +85°C; OUTPUT POWER DERATES LINEARLY FROM 1800W @ 45°C TO 1000W @ 85°C. SHUTDOWN OVER 85°C. - WEIGHT 1.9 Lbs	195–277VAC OR 195–250VDC 85–305VAC OR 85–250VDC	10.4	48 VDC 43.5–57.6 VDC	37.5A @ 220VAC 20A @ 110VAC	1800W/37.5A (195–277VAC OR 195–250VDC) 700W–1800W/14.6A–37.5A (85–195VAC OR 85–195VDC)	UP TO 95.8%	CE, UL, RoHS COMPLIANT	2.83	8.27	1	1.9	148 @ 50% LOAD 409 @ 100% LOAD	YES	YES	
241122.205	FLATPACK S 24V/1000W HE RECTIFIER - NOMINAL INPUT: 185–305VAC OR 185–300VDC, 1000W OUTPUT; MAX AC INPUT CURRENT 5.9A - INPUT RANGE: 85–305VAC OR 85–300VDC; OUTPUT POWER LINEARLY DERATES FROM 1000W @185VAC TO 440W @ 85VAC - OUPUT: 24V (21.5–28VDC), 1000W, MAX. OUTPUT CURRENT: 41.7A @ 48VDC, - EFFICIENCY: 92.5%; >95% @ 25–80% LOAD; FAN COOLED (FRONT TO BACK) - OPERATING TEMPERATURE: –40 TO +85°C; OUTPUT POWER DERATES LINEARLY FROM 1000W @ 45°C TO 400W @ 85°C. SHUTDOWN OVER 85°C. - WEIGHT 1.9 Lbs	185–305VAC OR 185–300VDC 85–305VAC OR 85–300VDC	5.9	24 VDC 21.5–28 VDC	41.7A @ 220VAC (VDC) 24.2A @ 110VAC (VDC)	1000W/41.7A (185–305VAC OR 185–300VDC)) 440W–1000W/18.3A–41.7A (85–185VAC OR 85–185VDC)	UP TO 92.5%	CE, UL, RoHS COMPLIANT	2.83	8.27	1	1.9	145 @ 50% LOAD 307 @ 100% LOAD	NO	NO	
241122.930	FLATPACK S BLIND PANEL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.29	0.68	1	0.2	N/A	N/A	NO	



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SECTION 6.0 ACCESSORY

TABLE 6A BATTERY BREAKER					
PART NUMBER	DESCRIPTION	RATING (A)	#OF POLES	COMPATIBLE DISTRIBUTION	NOTE
306855	CBMCB:HYMAG=40A 80VDC 10KA BATT AS	40	1	D1~D2, D10~D11	
295467	CBMCB:HYMAG=60A 80VDC 10KA BATT AS	60	1	D30~D31, D40~D41, D50~D51	SYSTEM IS WITH 1KW RECTIFIER
306856	CBMCB:HYMAG=80A 80VDC 10KA BATT AS	80	1	D30~D31, D40~D41, D50~D51	SYSTEM IS WITH 1.8KW RECTIFIER

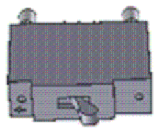


TABLE 6B LOAD BREAKER 1U					
PART NUMBER	DESCRIPTION	RATING (A)	# OF POLES	COMPATIBLE DISTRIBUTION	NOTE
294537	CBMCB:HYMAG=2A 65VDC 1KA LOAD 1U	2	1	D1~D2, D10~D11	
294538	CBMCB:HYMAG=5A 65VDC 1KA LOAD 1U	5	1	D1~D2, D10~D11	
294539	CBMCB:HYMAG=10A 65VDC 1KA LOAD 1U	10	1	D1~D2, D10~D11	
294540	CBMCB:HYMAG=15A 65VDC 1KA LOAD 1U	15	1	D1~D2, D10~D11	
294541	CBMCB:HYMAG=20A 65VDC 1KA LOAD 1U	20	1	D1~D2, D10~D11	



TABLE 6C LOAD BREAKER					
PART NUMBER	DESCRIPTION	RATING (A)	# OF POLES	COMPATIBLE DISTRIBUTION	NOTE
294810	CBMCB, 10A 80VDC BULLET NO AUX SW	10	1	D30~D31	
294811	CBMCB, 20A 80VDC BULLET NO AUX SW	20	1	D30~D31	
323823	CBMCB, 30A 80VDC BULLET NO AUX SW	30	1	D30~D31	
294812	CBMCB, 40A 80VDC BULLET NO AUX SW	40	1	D30~D31	
323824	CBMCB, 50A 80VDC BULLET NO AUX SW	50	1	D30~D31	
294813	CBMCB, 60A 80VDC BULLET NO AUX SW	60	1	D30~D31	
323825	CBMCB, 70A 80VDC BULLET NO AUX SW	70	1	D30~D31	
301377	CBMCB, 80A 80VDC BULLET NO AUX SW	80	1	D30~D31	

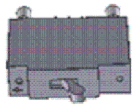
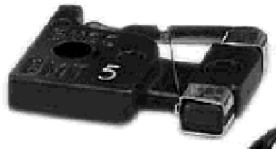
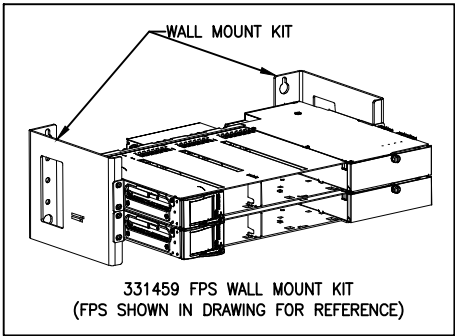


TABLE 6D LOAD GMT FUSE				
PART NUMBER	DESCRIPTION	RATING (A)	COMPATIBLE DISTRIBUTION	NOTE
GMT0018	GMT FUSE 60VDC/125VAC 0.18 A	0.18	D40~D41, D50~D51	
1125230625	GMT FUSE 60VDC/125VAC 0.25A	0.25	D40~D41, D50~D51	
233413	GMT FUSE 60VDC/125VAC 0.75A	0.75	D40~D41, D50~D51	
1125230010	GMT FUSE 60VDC/125VAC 1A	1	D40~D41, D50~D51	
1125230013	GMT FUSE 60VDC/125VAC 1.3A	1.3	D40~D41, D50~D51	
GMT0200	GMT FUSE 60VDC/125VAC 2A	2	D40~D41, D50~D51	
GMT0300	GMT FUSE 60VDC/125VAC 3A	3	D40~D41, D50~D51	
1125230050	GMT FUSE 60VDC/125VAC 5A	5	D40~D41, D50~D51	
GMT0700	GMT FUSE 60VDC/125VAC 7A	7	D40~D41, D50~D51	
GMT0750	GMT FUSE 60VDC/125VAC 7.5A	7.5	D40~D41, D50~D51	
GMT1000	GMT FUSE 60VDC/125VAC 10A	10	D40~D41, D50~D51	



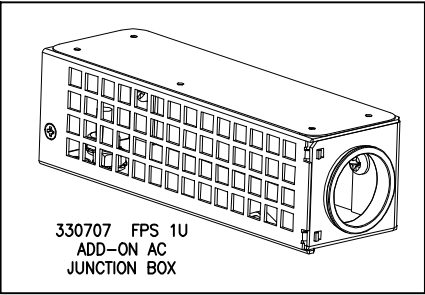
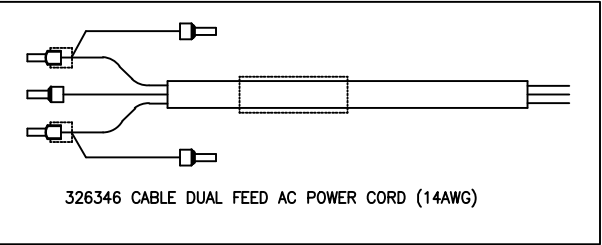
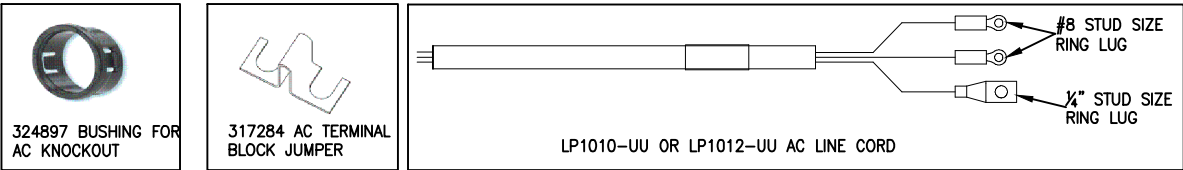
GMT FUSE

TABLE 6F SYSTEM ACCESSORY		
PART NUMBER	DESCRIPTION	NOTE
331459	FPS WALL MOUNT BRACKET	
295309	KIT FOR CONVERTING ONE BATTERY BREAKER TO A LOAD BREAKER	SEE DOCUMENT 2173693 FOR INSTRUCTION



331459 FPS WALL MOUNT KIT (FPS SHOWN IN DRAWING FOR REFERENCE)

TABLE 6E AC INPUT PART FOR US VERSION SHELF			
PART NUMBER	DESCRIPTION	COMPATIBLE RECTIFIER SHELF	NOTE
324897	HEYCO SHORTY BUSH/GRMT 1.093 HOLE	S3	
317284	JUMPER CLIP FOR 2 TERMINAL BLOCKS	S3	
LP1010-UU	LINE CORD, 10AWG, RING LUG TO UU, 10' LONG	S3	
LP1012-UU	LINE CORD, 12AWG, RING LUG TO UU, 10' LONG	S3	
326346	CABLE DUAL FEED AC POWER CORD (14AWG), 10FT	S1 OR S2	S2 SHELF NEEDS QTY 2 OF THIS CABLE, FOR 1000W RECTIFIER ONLY
330707	FPS 1U ADD-ON AC JUNCTION BOX	S1, S2, S3	

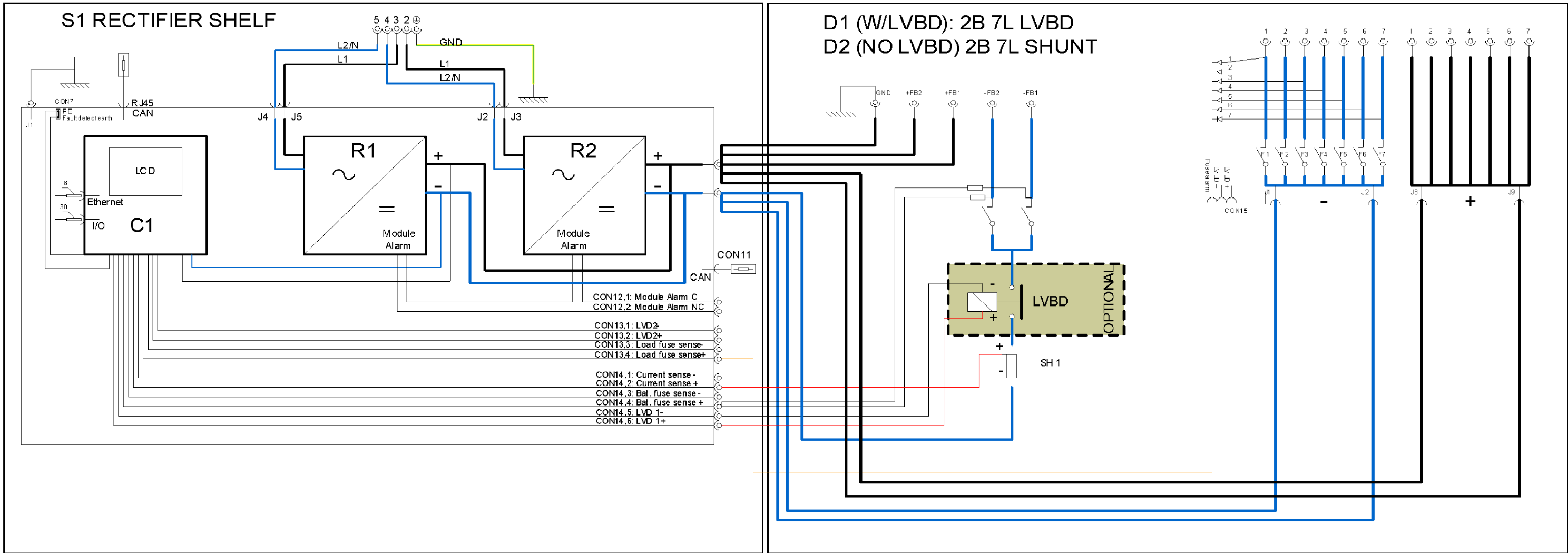


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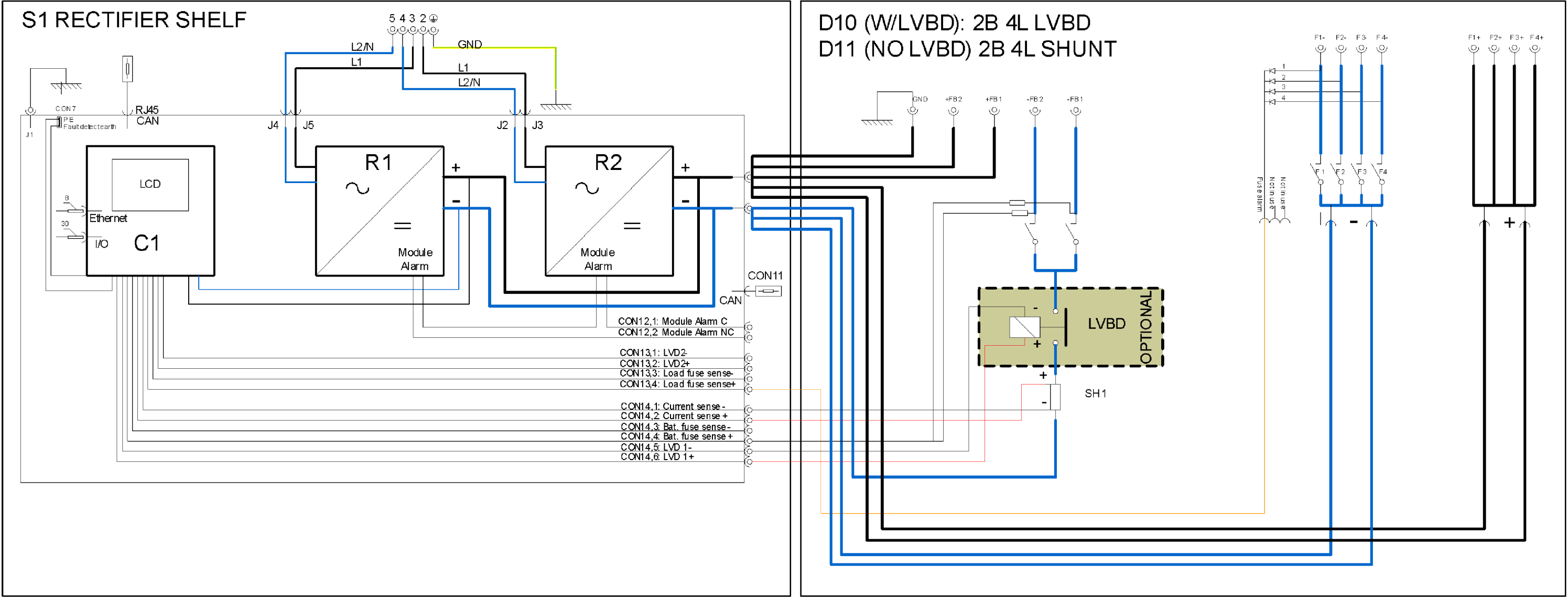
SECTION 7.0 SCHEMATIC DRAWING FOR S1 WITH D1 OR D2



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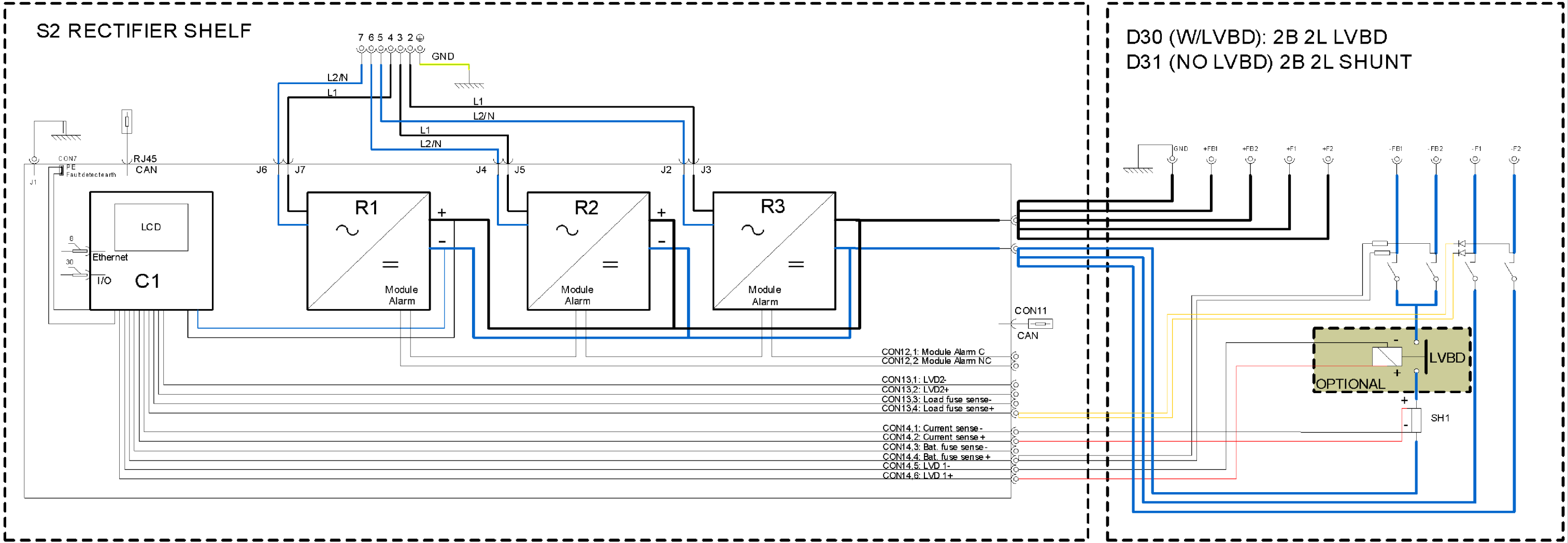
SECTION 7.1 SCHEMATIC DRAWING FOR S1 WITH D10 OR D11



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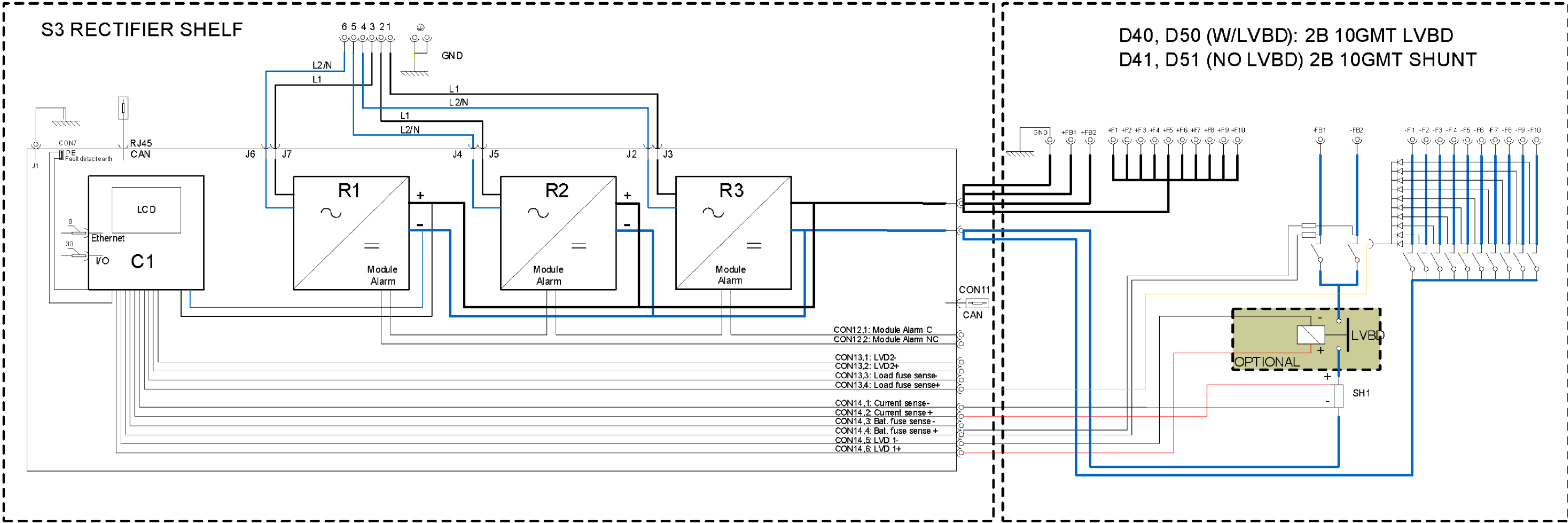
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SECTION 7.3 SCHEMATIC DRAWING FOR S2 WITH D30 OR D31



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		ASSEMBLY DRAWING
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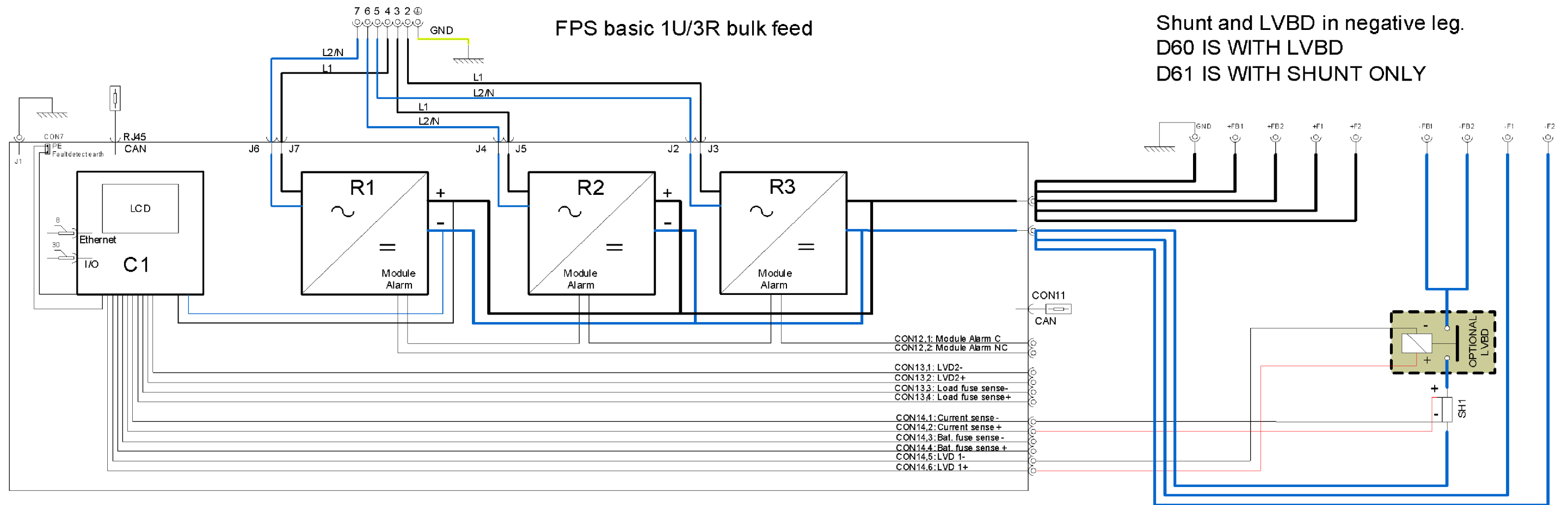
SECTION 7.4 SCHEMATIC DRAWING FOR S3 WITH D40 OR D41
S3 WITH D50 OR D51



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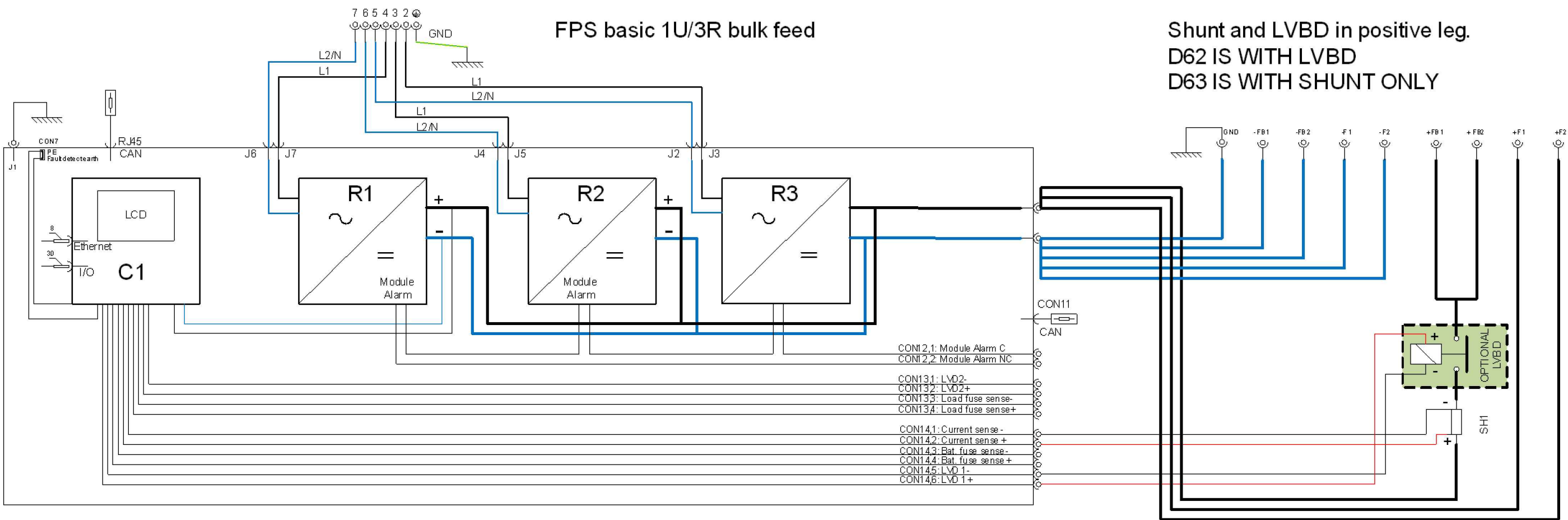
SECTION 7.5 SCHEMATIC DRAWING FOR S2 WITH D60 OR D61



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		SCHEMATIC DRAWING	
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		SECTION 7.5	
		DRAWING NUMBER 2147987	

SECTION 7.6 SCHEMATIC DRAWING FOR S2 WITH D62 OR D63

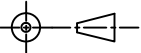


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		SCHEMATIC DRAWING
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		SECTION 7.6
		DRAWING NUMBER 2147987

SECTION 8.0 PRECONFIGURED KIT

TABLE 8 PRECONFIGURED KIT

PART NUMBER	DESCRIPTION	POWERCORE	RECTIFIER AND QUANTITY	BATTERY BREAKER AND QTY	LOAD BREAKER AND QTY	NOTE
CTOS0201.001	FPS 48V/40A POWERCORE, 2 RECTIFIERS W/ DISTRIBUTION, LVBD, 1RU HIGH - QTY 2 48V/1000W RECTIFIERS, INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - QTY 2 40A BATT BREAKERS, LVBD; TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 7 LOAD BREAKERS (2*5A, 3*15A, 2*20A), DRAWER STYLE, TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	S1 & D1	QTY 2 48V/1000W RECTIFIERS	QTY 2 - 40A	QTY 2 - 5A, QTY 3 -15A QTY 2 - 20A	
ETTS0201.000	FPS 48V/40A POWERCORE, 2 RECTIFIERS W/ DISTRIBUTION, LVBD, 1RU HIGH - QTY 2 48V/1000W RECTIFIER POSITIONS, INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - QTY 2 40A BATT BREAKERS, LVBD; TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 7 LOAD BREAKER POSITIONS, DRAWER STYLE, TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	S1 & D1	NO RECTIFIER INCLUDED	QTY 2 - 40A	NO BREAKER INCLUDED	
320059	FPS 48V/40A POWERCORE, 2 RECTIFIERS W/ DISTRIBUTION, NO LVBD, 1RU HIGH - QTY 2 48V/1000W RECTIFIER POSITIONS, INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - QTY 2 40A BATT BREAKERS, NO LVBD; TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 7 LOAD BREAKER POSITIONS, DRAWER STYLE, TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	S1 & D2	NO RECTIFIER INCLUDED	QTY 2 - 40A	NO BREAKER INCLUDED	
CTOS0201.002	FPS 48V/40A POWERCORE, 2 RECTIFIERS W/ DISTRIBUTION, LVBD, 1RU HIGH - QTY 2 48V/1000W RECTIFIERS, INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - QTY 2 40A BATT BREAKERS, LVBD, TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 4 LOAD BREAKERS (2*15A, 2*20A), TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	S1 & D10	QTY 2 48V/1000W RECTIFIERS	QTY 2 - 40A	QTY 2 - 15A QTY 2 - 20A	
ETTS0201.001	FPS 48V/40A POWERCORE, 2 RECTIFIERS W/ DISTRIBUTION, LVBD, 1RU HIGH - QTY 2 48V/1000W RECTIFIER POSITIONS, INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - QTY 2 40A BATT BREAKERS, LVBD, TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 4 LOAD BREAKER POSITIONS, TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	S1 & D10	NO RECTIFIER INCLUDED	QTY 2 - 40A	NO BREAKER INCLUDED	
320060	FPS 48V/40A POWERCORE, 2 RECTIFIERS W/ DISTRIBUTION, NO LVBD, 1RU HIGH - QTY 2 48V/1000W RECTIFIER POSITIONS, INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG, REAR ACCESS - QTY 2 60A BATT BREAKERS, NO LVBD, TERMINAL BLOCK, MAX. 4AWG, REAR ACCESS - QTY 4 LOAD BREAKER POSITIONS, TERMINAL BLOCK, MAX. 10AWG, FRONT ACCESS - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	S1 & D11	NO RECTIFIER INCLUDED	QTY 2 - 60A	NO BREAKER INCLUDED	
CTOS0301.001	FPS 48V RECTIFIER SHELF 1U/3R, CAPACITY 48V/80A, WITH DISTRIBUTION, LVBD - QTY 3 RECTIFIER POSITIONS, CODED FOR 48V/1000W HE AND 48V/1800W RECTIFIER; CONFIGURED WITH 2 48V/1000W RECTIFIERS; INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG - QTY 2 100A BATT BREAKERS, LVBD, M6 SCREW, MAX. LUG TONGUE WIDTH 0.61" - QTY 2 60A LOAD BREAKERS, M6 SCREW, MAX. LUG TONGUE WIDTH 0.61" - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	MS0301.000 (S2 & D30)	QTY 2 48V/1000W RECTIFIERS	QTY 2 - 100A	QTY 2 - 60A	
ETTS0301.000	FPS 48V RECTIFIER SHELF 1U/3R, CAPACITY 48V/80A, WITH DISTRIBUTION, LVBD - QTY 3 RECTIFIER POSITIONS, CODED FOR 48V/1000W HE AND 48V/1800W RECTIFIER; INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG - QTY 2 100A BATT BREAKERS, LVBD, M6 SCREW, MAX. LUG TONGUE WIDTH 0.61" - QTY 2 LOAD BREAKER POSITIONS, M6 SCREW, MAX. LUG TONGUE WIDTH 0.61" - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	MS0301.000 (S2 & D30)	NO RECTIFIER INCLUDED	QTY 2 - 100A	NO BREAKER INCLUDED	
320057	FPS 48V RECTIFIER SHELF 1U/3R, CAPACITY 48V/80A, WITH DISTRIBUTION, NO LVBD - QTY 3 RECTIFIER POSITIONS, CODED FOR 48V/1000W HE AND 48V/1800W RECTIFIER; INDIVIDUAL INPUT, TERMINAL BLOCK, MAX. 10AWG - QTY 2 100A BATT BREAKERS, NO LVBD, M6 SCREW, MAX. LUG TONGUE WIDTH 0.61" - QTY 2 LOAD BREAKER POSITIONS, M6 SCREW, MAX. LUG TONGUE WIDTH 0.61" - SMARTPACK S CONTROLLER INCLUDED - TEMPERATURE SENSE 10 FT CABLE INCLUDED	S2 & D31	NO RECTIFIER INCLUDED	QTY 2 - 100A	NO BREAKER INCLUDED	



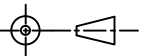
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		PRECONFIGURED KIT	
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		SECTION 8.0	
		DRAWING NUMBER 2147987	

SECTION 9.0 CUSTOMER REFERENCE

TABLE 9 CUSTOMER REFERENCE			
NO.	DOCUMENT NO.	DOCUMENT DESCRIPTION	NOTE
1	370035.013	USER GUIDE – ELTEK CONTROLLER (COMPACT, SMARTPACK 2 AND SMARTPACK S) WEB INTERFACE	
2	CTOS0X01.DS3	DATASHEET FLATPACK S 1U SYSTEMS	
3	242100.410.DS3	DATASHEET SMARTPACK S	
4	350030.013	USER GUIDE SMARTPACK S CONTROLLER	
5	2126770	FLATPACK S AC INPUT BREAKER	
6	241122.2XX.DS3	DATASHEET FLATPACK S 24V RECTIFIERS	
7	241122.1X5.DS3	DATASHEET FLATPACK S 48V RECTIFIERS	
8	356835.103	QUICK INSTALLATION GUIDE FLATPACK S 1U 2R–3R PS SYSTEM, 48V INTEGRATED MULTI DC DISTRIBUTION	
9	356835.003	DOCUMENTATION SET FLATPACK S 1U 2R–3R PS SYSTEM, 48V INTEGRATED MULTI DC DISTRIBUTION	
10	370012.DS3	DATASHEET – FLATPACK S 1U GMT US SYSTEMS	
11	370012.1030	QUICK START GUIDE – FLATPACK S 1U SYSTEMS	
12	370013.0630	CONFIGURATION GUIDE – SMARTPACK2, SMARTPACK S, COMPACT CONTROLLERS	
13	2155710	HOW TO SNMP WITH ELTEK CONTROLLERS	
14	2147987	FPS 1U PRODUCT GUIDE	
15	2173693	CONVERTING BATTERY BREAKER TO LOAD BREAKER INSTRUCTION	

NOTE: THE ABOVE DOCUMENTS ARE AVAILABLE ONLINE ELTEK.SHAREFILE.COM



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		CUSTOMER REFERENCE
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