INTEGRATED POWER SYSTEM PRODUCT GUIDE

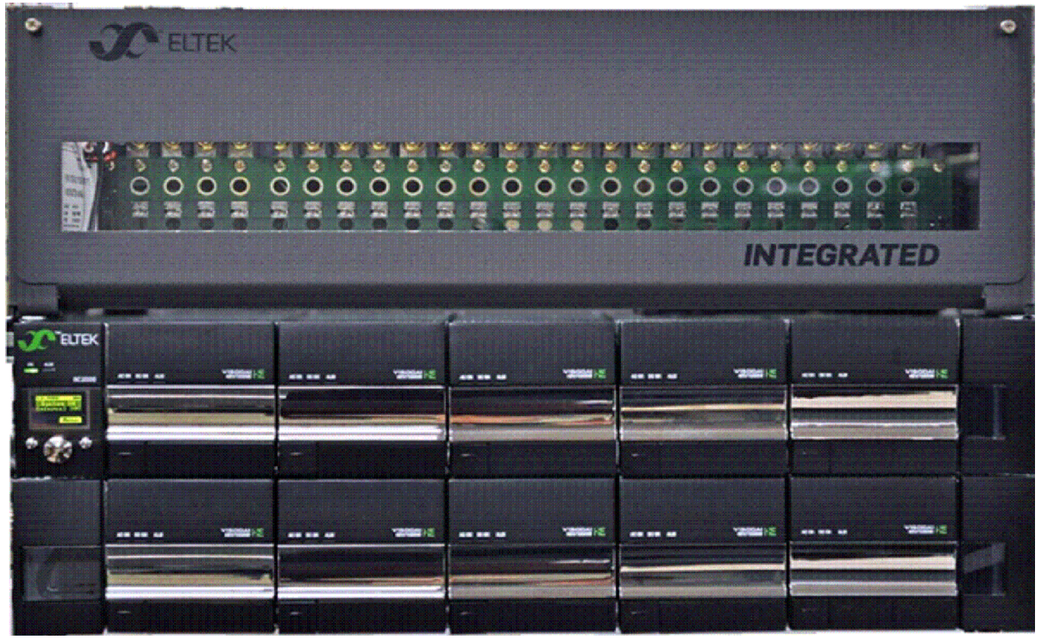
REVISION CHANGE HISTORY

CHANGE CONTENTS	DATE	REVISION
INITIAL RELEASE	08-16-13	1
1. REMOVE A11, A15 FROM TABLE 3A, REMOVE A11 A15 SCHEMATIC IN SECTION 2.1 2. REMOVE C11, C18 FROM TABLE 3B, REMOVE C11, C15, C18 SCHEMATIC IN SECTION 2.1-CONTINUED 3. UPDATED THE "AC KNOCKOUT" COLUMN IN TABLE 1C 3. UPDATE DRAWINGS IN SECTION 2.2 4. CHANGE B07 TO B04 IN TABLE 3 5. MODIFY RECTIFIER DESCRIPTION, ADD "BTU" AND "ENERGY STAR" COLUMNS IN TABLE 5 6. UPDATE TABLE 7A, 7B, 7C AND 7D 7. ADD DOC # 2075524 IN TABLE 8 8. ADD SECTION 7.1 SYSTEM ACCESSORIES		2

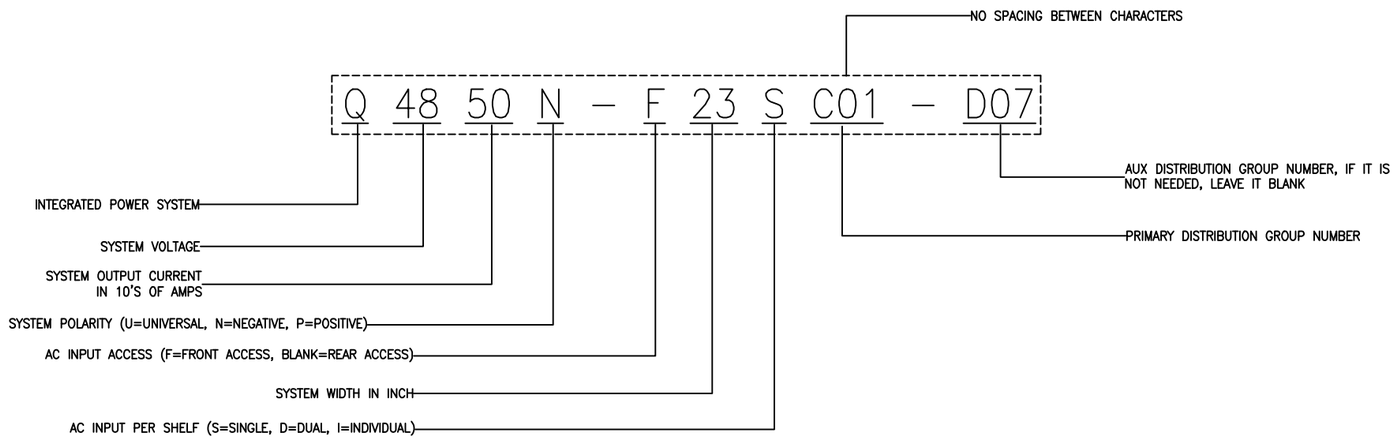
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang / ENG. 02-14-14 DRAFTER / DRAWN	ELTEK
APPROVED / IFS	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE REVISION CHANGE HISTORY
	DRAWING ISSUE DATE
DRAWING NUMBER 2127979	REV 2

INTEGRATED POWER SYSTEM PRODUCT GUIDE



INTEGRATED PRODUCT DESCRIPTION



DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE		
ENGINEER Franky Huang	ENG. 02–14–14	ELTEK
DRAFTER FMH	DRAWN	
APPROVED	IFS	CAD AUTOCAD
		ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE COVER
		DRAWING ISSUE DATE
	DRAWING NUMBER 2127979	REV 2

SECTION 1.0 SYSTEM VOLTAGE AND CAPACITY

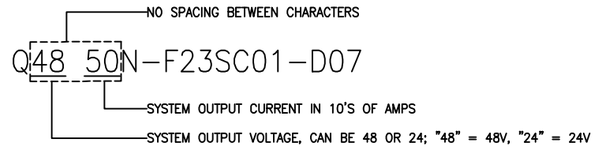
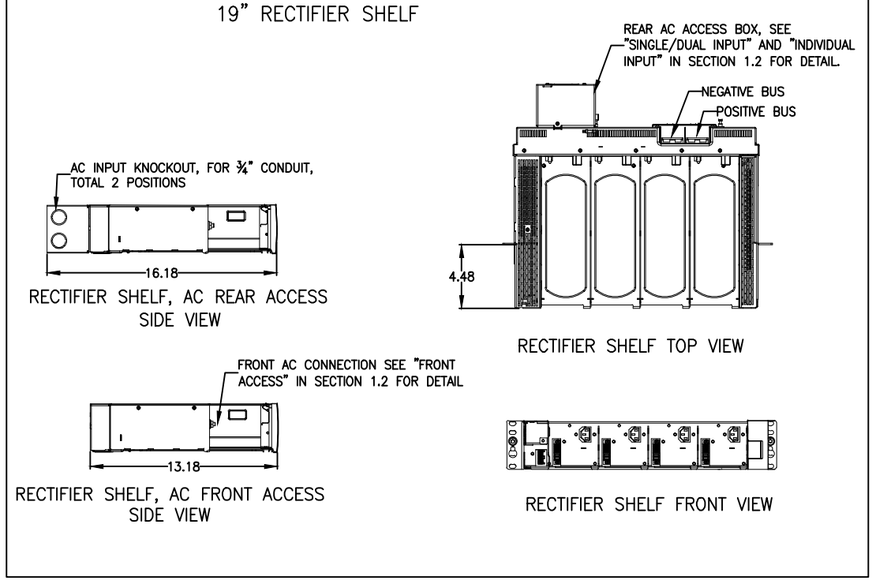


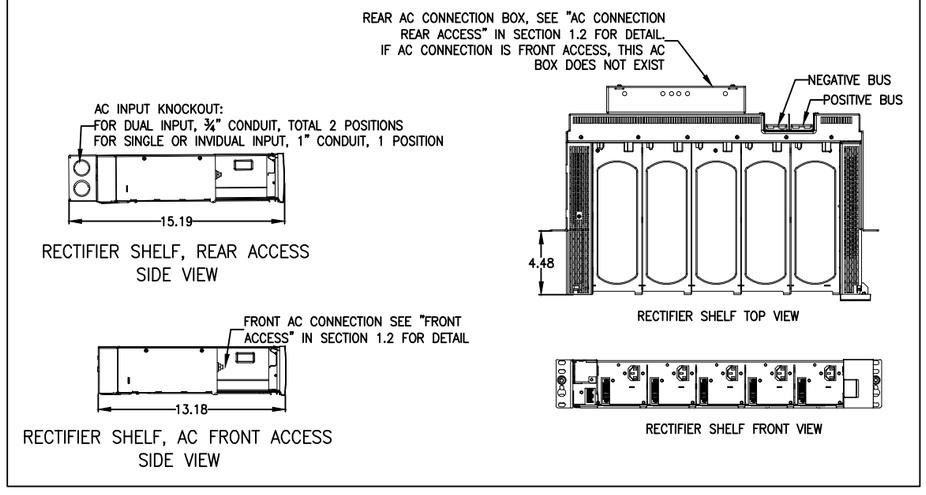
TABLE 1A SYSTEM VOLTAGE AND CAPACITY

VOLTAGE AND CAPACITY GROUP NUMBER	DESCRIPTION	NOMINAL OUTPUT VOLTAGE (VDC)	MAX. CURRENT @NOMINAL OUTPUT VOLTAGE	RECTIFIER POSITIONS	WIDTH (IN)	VERT. SPACE (RU)	EST. WEIGHT (LBS)	CLEI/CPR	NOTE
4820	V-SERIES RECTIFIER SHELF, QTY 1, 19" WIDE – 19" WIDE V-SERIES RECTIFIER SHELF, 2U HIGH, – 1 CONTROLLER POSITION, 4 RECTIFIER POSITIONS, COMPATIBLE WITH ALL V-SERIES RECTIFIERS, ±48V OUTPUT	48	200A	4	19	2	15	YES	
4840	V-SERIES RECTIFIER SHELF, QTY 2, 19" WIDE – 19" WIDE V-SERIES RECTIFIER SHELF, QTY 2, 4U HIGH, – 1 CONTROLLER POSITION, 1 EXPANSION CONTROLLER, 8 RECTIFIER POSITIONS, COMPATIBLE WITH ALL V-SERIES RECTIFIERS, ±48V OUTPUT	48	400A	8	19	4	30	YES	
4825	V-SERIES RECTIFIER SHELF, QTY 1, 23" WIDE – 23" WIDE V-SERIES RECTIFIER SHELF, 2U HIGH, – 1 CONTROLLER POSITION, 5 RECTIFIER POSITIONS, COMPATIBLE WITH ALL V-SERIES RECTIFIERS, ±48V OUTPUT	48	250A	5	23	2	15	YES	
4850	V-SERIES RECTIFIER SHELF, QTY 2, 23" WIDE – 23" WIDE V-SERIES RECTIFIER SHELF, 2U HIGH, – 1 CONTROLLER POSITION, 1 EXPANSION CONTROLLER, 10 RECTIFIER POSITIONS, COMPATIBLE WITH ALL V-SERIES RECTIFIERS, ±48V OUTPUT	48	500A	10	23	4	30	YES	
2424	V-SERIES RECTIFIER SHELF, QTY 1, 19" WIDE – 19" WIDE V-SERIES RECTIFIER SHELF, 2U HIGH, – 1 CONTROLLER POSITION, 4 RECTIFIER POSITIONS, COMPATIBLE WITH ALL V-SERIES RECTIFIERS, ±24V OUTPUT	24	240A	4	19	2	15	YES	
2448	V-SERIES RECTIFIER SHELF, QTY 2, 19" WIDE – 19" WIDE V-SERIES RECTIFIER SHELF, QTY 2, 4U HIGH, – 1 CONTROLLER POSITION, 1 EXPANSION CONTROLLER, 8 RECTIFIER POSITIONS, COMPATIBLE WITH ALL V-SERIES RECTIFIERS, ±24V OUTPUT	24	480A	8	19	4	30	YES	
2430	V-SERIES RECTIFIER SHELF, QTY 1, 23" WIDE – 23" WIDE V-SERIES RECTIFIER SHELF, 2U HIGH, – 1 CONTROLLER POSITION, 5 RECTIFIER POSITIONS, COMPATIBLE WITH ALL V-SERIES RECTIFIERS, ±24V OUTPUT	24	300A	5	23	2	15	YES	

19" RECTIFIER SHELF



23" RECTIFIER SHELF



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang / ENG. 07-10-13	ELTEK
DRAFTER FMH / DRAWN	
APPROVED / IFS	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE SYSTEM VOLTAGE AND CAPACITY
	DRAWING ISSUE DATE
	SECTION 1.0
	DRAWING NUMBER 2127979

SECTION 1.1 SYSTEM POLARITY

Q4850N-F23SC01-D07

SYSTEM POLARITY, CAN BE "N" OR "P"; "N" = NEGATIVE, "P" = POSITIVE

TABLE 1B SYSTEM POLARITY

SYSTEM POLARITY GROUP NUMBER	DESCRIPTION	NOTE
N	NEGATIVE POWER SYSTEM	
P	POSITIVE POWER SYSTEM	

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
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DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang / ENG. 07-10-13	ELTEK
DRAFTER FMH / DRAWN	
APPROVED / IFS	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE SYSTEM POLARITY
	DRAWING ISSUE DATE
	SECTION 1.1
	DRAWING NUMBER 2127979

SECTION 1.2 AC OPTIONS AND SYSTEM WIDTH

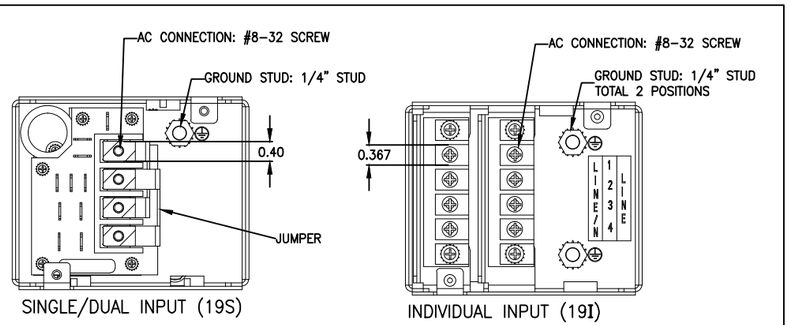
Q4850N–F 23 SC01–D07

- NO SPACING BETWEEN CHARACTERS
- AC INPUT FEED, CAN BE "I", "D", OR "S"; "I" = INDIVIDUAL, "D" = DUAL, "S" = SINGLE
- SYSTEM MOUNTING WIDTH, CAN BE "19", OR "23"; "19" = 19" WIDE, "23" = 23" WIDE
- AC ACCESS, "F" = FRONT ACCESS, LEAVE BLANK WHEN IT IS REAR ACCESS

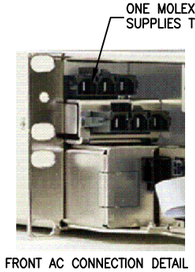
TABLE 1C AC OPTIONS AND SYSTEM WIDTH

AC OPTIONS AND SYSTEM WIDTH GROUP NUMBER	DESCRIPTION	AC ACCESS	AC INPUT FEED	AC TERMINAL STYLE	AC WIRE TYPE	AC KNOCKOUT	GROUND STUD	WIDTH (IN)	COMPATIBLE SYSTEM VOLTAGE & CAPACITY GROUP NUMBER	NOTE
19S	SINGLE AC INPUT REAR ACCESS, 19" WIDE – MOUNTING WIDTH: 19" – SINGLE AC INPUT (CONVERTED TO DUAL AC INPUT IN FIELD BY REMOVING JUMPERS, JUMPERS' P/N: B0247011512 & B0247011513), REAR ACCESS , CONNECTION: #8–32 SCREW	REAR	SINGLE/DUAL	#8–32 SCREW	LL (SEE TABLE 7A)	QTY 2 FOR ¾" CONDUIT	QTY 1 ¼" STUD	19	4820, 4840, 2424, 2448	
19I	INDIVIDUAL AC INPUT REAR ACCESS, 19" WIDE – MOUNTING WIDTH: 19" – INDIVIDUAL AC INPUT, REAR ACCESS, CONNECTION: #8–32 SCREW	REAR	INDIVIDUAL	#8–32 SCREW	LL (SEE TABLE 7A)	QTY 2 FOR ¾" CONDUIT QTY 1 FOR 1" CONDUIT	QTY 1 ¼" STUD	19	4820, 4840, 2424, 2448	
F19D	DUAL AC INPUT FRONT ACCESS, 19" WIDE – MOUNTING WIDTH: 19" – DUAL AC INPUT, FRONT ACCESS, CONNECTION: MOLEX CONNECTOR	FRONT	DUAL	MOLEX CONNECTOR	LM (SEE TABLE 7B)	N/A	N/A	19	4820, 4840, 2424, 2448	
23S	SINGLE AC INPUT REAR ACCESS, 23" WIDE – MOUNTING WIDTH: 23" – SINGLE AC INPUT, REAR ACCESS, CONNECTION: ¼" STUDS ON ⅝" CENTER	REAR	SINGLE	¼" STUDS ON ⅝" CENTER	LD (SEE TABLE 7C)	QTY 2 FOR ¾" CONDUIT ON ONE SIDE QTY 1 FOR 1" CONDUIT ON THE OTHER SIDE QTY 3 FOR ¾" CONDUIT ON THE REAR	QTY 1 ¼" ON ⅝" CTR	23	4825, 4850, 2430	
23D	DUAL AC INPUT REAR ACCESS, 23" WIDE – MOUNTING WIDTH: 23" – DUAL AC INPUT, REAR ACCESS, CONNECTION: #8–32 SCREW	REAR	DUAL	#8–32 SCREW	LL (SEE TABLE 7A)	QTY 2 FOR ¾" CONDUIT ON ONE SIDE QTY 1 FOR 1" CONDUIT ON THE OTHER SIDE QTY 3 FOR ¾" CONDUIT ON THE REAR	QTY 1 ¼" STUD	23	4825, 4850, 2430	
23I	INDIVIDUAL AC INPUT, REAR ACCESS, 23" WIDE – MOUNTING WIDTH: 23" – INDIVIDUAL AC INPUT, REAR ACCESS, CONNECTION: #8–32 SCREW	REAR	INDIVIDUAL	#8–32 SCREW	LL (SEE TABLE 7A)	QTY 2 FOR ¾" CONDUIT ON ONE SIDE QTY 1 FOR 1" CONDUIT ON THE OTHER SIDE QTY 3 FOR ¾" CONDUIT ON THE REAR	QTY 2 ¼" STUD	23	4825, 4850, 2430	
F23D	DUAL AC INPUT FRONT ACCESS, 23" WIDE – MOUNTING WIDTH: 23" – DUAL AC INPUT, FRONT ACCESS, CONNECTION: MOLEX CONNECTOR	FRONT	DUAL	MOLEX CONNECTOR	LM (SEE TABLE 7B)	N/A	N/A	23	4825, 4850, 2430	
F23I	INDIVIDUAL AC INPUT FRONT ACCESS, 23" WIDE – MOUNTING WIDTH: 23" – INDIVIDUAL AC INPUT, FRONT ACCESS, CONNECTION: AMP CONNECTOR	FRONT	INDIVIDUAL	AMP CONNECTOR	LA (SEE TABLE 7D)	N/A	N/A	23	4825, 4850, 2430	

NOTE: "SINGLE" STANDS FOR ONE AC INPUT PER ONE RECTIFIER SHELF; "DUAL" STANDS FOR ONE AC INPUT PER TWO RECTIFIERS (ONE 23" RECTIFIER SHELF HAS TWO "DUAL" INPUTS, ONE SUPPLIES TWO RECTIFIERS, ONE SUPPLIES 3 RECTIFIERS) ; "INDIVIDUAL" STANDS FOR ONE AC INPUT PER ONE RECTIFIER

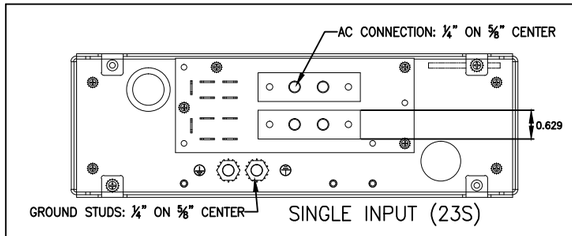


REAR ACCESS DETAIL



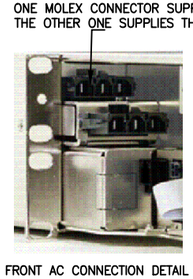
FRONT AC CONNECTION DETAIL
DUAL AC INPUT

19" RECTIFIER SHELF AC INPUT DETAIL

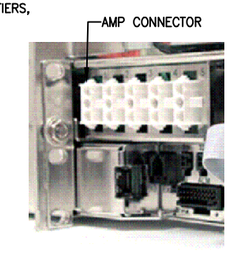


AC CONNECTION REAR ACCESS DETAIL

23" RECTIFIER SHELF AC INPUT DETAIL



FRONT AC CONNECTION DETAIL
DUAL AC INPUT (F23D)



FRONT AC CONNECTION DETAIL
INDIVIDUAL AC INPUT (F23I)

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DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang ENG. 07–10–13	ELTEK
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APPROVED IFS	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE AC OPTIONS AND SYSTEM WIDTH
	DRAWING ISSUE DATE
	SECTION 1.2
	DRAWING NUMBER 2127979

SECTION 2.0 PRIMARY DISTRIBUTION

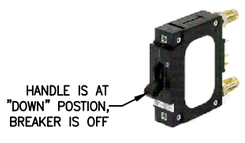
Q4850N-F23SCxx-D07

PRIMARY DISTRIBUTION GROUP NUMBER
- THE 1ST CHARACTER CAN BE "A" OR "C"; "A" = 19" WIDE DIST; "C" = 23" WIDE DIST
- THE 2ND CHARACTER CAN BE "0", OR "1"; "0" = NO BATT REAR BUS, "1" = WITH BATT REAR BUS.
- THE 3RD CHARACTER CAN BE "1", "5", "8", "4" OR "3"; "1" = 4 BATT BREAKER AND W/ SHUNT & LVBD, "5" = 4 BATT BREAKER AND W/ SHUNT ONLY, "8" = 12 BATT BREAKER AND W/ SHUNT & LVBD, "3" = NO BATTE BREAKER AND W/ SHUNT ONLY, "4" = NO BATTE BREAKER AND W/ SHUNT & LVBD

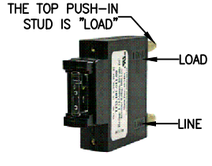
TABLE 3A 19" PRIMARY DISTRIBUTION LIST

GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE (VDC)	DISTRIBUTION CAPACITY (A)	LOAD DISTRIBUTION		BATTERY DISTRIBUTION				WIDTH (IN)	DEPTH (IN)	VERT. SPACE (RU)	EST. WEIGHT (LBS)	CLEI	NOTE
				BREAKER POSTIONS AND LANDINGS	BULK LANDINGS	BATTERY BREAKER POSITIONS AND LANDINGS	# OF BULK BATT. CONNECTIONS	BATTERY SHUNT RATING	NO LVD, LVBD AND RATING						
A01	19" PRIMARY DISTRIBUTION WITH LVBD, FRONT BATTERY CONNECTION -4U HIGH, 15" DEEP. -QTY 15 LOAD BREAKER POSITIONS, CONNECTION ¼" STUDS ON ⅝" CENTER -LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER -FRONT BATTERY CONNECTIONS: QTY 4 LVBD BATTERY BREAKER POSITIONS, ¼" STUDS ON ⅝" CENTER; -LVBD 600A CONTACTOR AND 50mV/600A SHUNT ON BATTERY CIRCUIT	±48 / ±24	500	QTY 15 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	QTY 4 ¼" ON ⅝" CTR	N/A	50mV/600A	600A LVBD	19	15	4	40	YES	
A05	19" PRIMARY DISTRIBUTION WITH NO LVBD, FRONT BATTERY CONNECTION -4U HIGH, 15" DEEP. -QTY 15 LOAD BREAKER POSITIONS, CONNECTION ¼" STUDS ON ⅝" CENTER -LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER -FRONT BATTERY CONNECTIONS: QTY 4 BATTERY BREAKER POSITIONS, ¼" STUDS ON ⅝" CENTER; -SHUNT 50mV/600A ON BATTERY CIRCUIT	±48 / ±24	500	QTY 15 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	QTY 4 ¼" ON ⅝" CTR	N/A	50mV/600A	NO LVD	19	15	4	40	YES	
A13	19" PRIMARY DISTRIBUTION WITH NO LVBD, REAR BATTERY CONNECTION ONLY -4U HIGH, 15" DEEP. -QTY 19 LOAD BREAKER POSITION, CONNECTION ¼" ON ⅝" CENTER -LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER -REAR BATTERY BULK CONNECTIONS: QTY 5 (¼" ON ⅝" CENTER) AND QTY 5 (⅜" ON 1" CENTER). -SHUNT 50mV/600A ON BATTERY CIRCUIT	±48 / ±24	500	QTY 19 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	N/A	QTY 5 – ¼" ON ⅝" CTR AND QTY 5 – ⅜" ON 1" CTR	50mV/600A	NO LVD	19	15	4	40	YES	
A14	19" PRIMARY DISTRIBUTION WITH LVBD, REAR BATTERY CONNECTION ONLY -4U HIGH, 15" DEEP. -QTY 19 LOAD BREAKER POSITION, CONNECTION ¼" ON ⅝" CENTER -LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER -REAR BATTERY BULK CONNECTIONS: QTY 5 (¼" ON ⅝" CENTER) AND QTY 5 (⅜" ON 1" CENTER). -LVBD 600A CONTACTOR AND 50mV/600A SHUNT ON BATTERY CIRCUIT	±48 / ±24	500	QTY 19 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	N/A	QTY 5 – ¼" ON ⅝" CTR AND QTY 5 – ⅜" ON 1" CTR	50mV/600A	600A LVBD	19	15	4	40	YES	

NOTE:
1. 1-POLE CIRCUIT BREAKER OCCUPIES 1 BREAKER POSITION; 1 TPS FUSE HOLDER OCCUPIES 1 BREAKER POSITION
2. 2-POLE CIRCUIT BREAKER OCCUPIES 2 BREAKER POSITIONS; 3-POLE CIRCUIT BREAKER OCCUPIES 3 BREAKER POSITIONS
3. BULLET BREAKER ORIENTATION: THE BREAKER WILL BE OFF WHEN THE HANDLE IS AT "DOWN" POSITON
   TPS FUSE HOLDER ORIENTATION: THE TOP PUSH-IN BULLET IS THE "LOAD" ONE



BULLET BREAKER ORIENTATION



TPS FUSE HOLDER ORIENTATION

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DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang / ENG. 02-14-14	ELTEK
DRAFTER FMH / DRAWN	
APPROVED / IFS	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE PRIMARY DISTRIBUTION
	DRAWING ISSUE DATE
	SECTION 2.0
	DRAWING NUMBER 2127979

SECTION 2.0–CONTINUED PRIMARY DISTRIBUTION

Q4850N–F23SCxx–D07

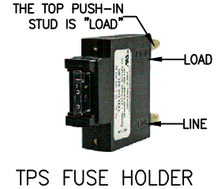
PRIMARY DISTRIBUTION GROUP NUMBER
- THE 1ST CHARACTER CAN BE "A" OR "C"; "A" = 19" WIDE DIST; "C" = 23" WIDE DIST
- THE 2ND CHARACTER CAN BE "0", OR "1"; "0" = NO BATT REAR BUS, "1" = WITH BATT REAR BUS.
- THE 3RD CHARACTER CAN BE "1", "5", "8", "4" OR "3"; "1" = 4 BATT BREAKER AND W/ SHUNT & LVBD, "5" = 4 BATT BREAKER AND W/ SHUNT ONLY, "8" = 12 BATT BREAKER AND W/ SHUNT & LVBD, "3" = NO BATTE BREAKER AND W/ SHUNT ONLY, "4" = NO BATTE BREAKER AND W/ SHUNT & LVBD

TABLE 3B 23" PRIMARY DISTRIBUTION LIST MUST SELECT ONE

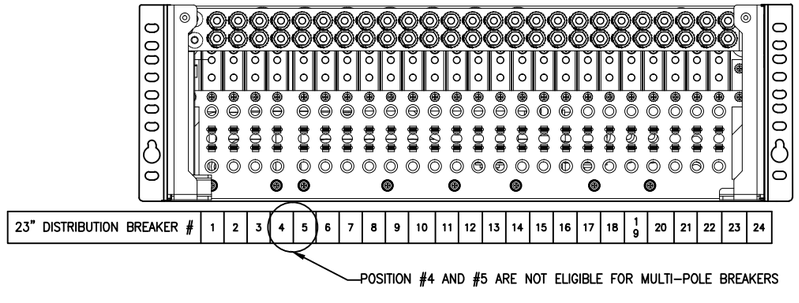
GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE (VDC)	DISTRIBUTION CAPACITY (A)	LOAD DISTRIBUTION		BATTERY DISTRIBUTION				WIDTH (IN)	DEPTH (IN)	VERT. SPACE (RU)	EST. WEIGHT (LBS)	CLEI	NOTE
				BREAKER POSTIONS AND LANDINGS	BULK LANDINGS	BATTERY BREAKER POSITIONS AND LANDINGS	# OF BULK BATT. CONNECTIONS	BATTERY SHUNT RATING	NO LVD, LVBD AND RATING						
C01	23" PRIMARY DISTRIBUTION WITH LVBD, FRONT BATTERY CONNECTION –4U HIGH, 15" DEEP. –QTY 20 LOAD BREAKER POSITIONS, CONNECTION ¼" STUDS ON ⅝" CENTER –LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER –FRONT BATTERY CONNECTIONS: QTY 4 LVBD BATTERY BREAKER POSITIONS, ¼" STUDS ON ⅝" CENTER; –LVBD 600A CONTACTOR AND 50mV/600A SHUNT ON BATTERY CIRCUIT	±48 / ±24	500	QTY 20 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	QTY 4 ¼" ON ⅝" CTR	N/A	50mV/600A	600A LVBD	23	15	4	45	YES	
C05	23" PRIMARY DISTRIBUTION WITH NO LVBD, FRONT BATTERY CONNECTION –4U HIGH, 15" DEEP. –QTY 20 LOAD BREAKER POSITION, CONNECTION ¼" STUDS ON ⅝" CENTER –LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER –FRONT BATTERY CONNECTIONS: QTY 4 BATTERY BREAKER POSITIONS, ¼" STUDS ON ⅝" CENTER; –SHUNT 50mV/600A ON BATTERY CIRCUIT	±48 / ±24	500	QTY 20 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	QTY 4 ¼" ON ⅝" CTR	N/A	50mV/600A	NO LVD	23	15	4	45	YES	
C08	23" PRIMARY DISTRIBUTION WITH LVBD, FRONT BATTERY CONNECTION –4U HIGH, 15" DEEP. –QTY 12 LOAD BREAKER POSITION, CONNECTION ¼" STUDS ON ⅝" CENTER –LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER –FRONT BATTERY CONNECTIONS: QTY 12 LVBD BATTERY BREAKER POSITIONS, ¼" STUDS ON ⅝" CENTER; –LVBD 600A CONTACTOR AND 50mV/600A SHUNT ON BATTER CIRCUIT	±48 / ±24	500	QTY 12 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	QTY 12 ¼" ON ⅝" CTR	N/A	50mV/600A	600A LVBD	23	15	4	45	YES	
C15	23" PRIMARY DISTRIBUTION WITH NO LVBD, FRONT AND REAR BATTERY CONNECTION –4U HIGH, 15" DEEP. –QTY 20 LOAD BREAKER POSITION, CONNECTION ¼" STUDS ON ⅝" CENTER –LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER –FRONT BATTERY CONNECTIONS: QTY 4 BATTERY BREAKER POSITIONS, ¼" STUDS ON ⅝" CENTER; –REAR BATTERY BULK CONNECTIONS: QTY 8 (¼" NUTS ON ⅝" CENTER) AND QTY 7 (⅜" STUDS ON 1" CENTER). –SHUNT 50mV/600A ON BATTERY CIRCUIT	±48 / ±24	500	QTY 20 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	QTY 4 ¼" ON ⅝" CTR	QTY 8 – ¼" ON ⅝" CTR AND QTY 7 – ⅜" ON 1" CTR	50mV/600A	NO LVD	23	15	4	45	YES	
C13	23" PRIMARY DISTRIBUTION WITH NO LVBD, REAR BATTERY CONNECTION ONLY –4U HIGH, 15" DEEP. QTY 24 LOAD BREAKER POSITION, CONNECTION ¼" ON ⅝" CENTER –LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER –REAR BATTERY BULK CONNECTIONS: QTY 8 (¼" NUTS ON ⅝" CENTER) AND QTY 7 (⅜" STUDS ON 1" CENTER). –SHUNT 50mV/600A ON BATTERY CIRCUIT	±48 / ±24	500	QTY 24 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	N/A	QTY 8 – ¼" ON ⅝" CTR AND QTY 7 – ⅜" ON 1" CTR	50mV/600A	NO LVD	23	15	4	45	YES	
C14	23" PRIMARY DISTRIBUTION WITH LVBD, REAR BATTERY CONNECTION ONLY –4U HIGH, 15" DEEP. QTY 24 LOAD BREAKER POSITION, CONNECTION ¼" ON ⅝" CENTER –LOAD BULK LANDINGS: QTY 1 ⅜" NUTS ON 1" CENTER, QTY 2 ¼" NUTS ON ⅝" CENTER –REAR BATTERY BULK CONNECTIONS: QTY 8 (¼" NUTS ON ⅝" CENTER) AND QTY 7 (⅜" STUDS ON 1" CENTER). –LVBD 600A CONTACTOR AND 50mV/600A SHUNT ON BATTERY CIRCUIT	±48 / ±24	500	QTY 24 ¼" ON ⅝" CTR	QTY 1 ⅜" ON 1" CENTER QTY 2 ¼" ON ⅝" CENTER	N/A	QTY 8 – ¼" ON ⅝" CTR AND QTY 7 – ⅜" ON 1" CTR	50mV/600A	600A LVBD	23	15	4	45	YES	

NOTE:
1. 1–POLE CIRCUIT BREAKER OCCUPIES 1 BREAKER POSITION; 1 TPS FUSE HOLDER OCCUPIES 1 BREAKER POSITION
2. 2–POLE CIRCUIT BREAKER OCCUPIES 2 BREAKER POSITIONS; 3–POLE CIRCUIT BREAKER OCCUPIES 3 BREAKER POSITIONS
3. FOR 23" DISTRIBUTION, BREAKER POSITIONS #4 AND #5 (FROM LEFT TO RIGNT IN FRONT VIEW) ARE NOT ELIGIBLE FOR MUTI–POLE BREAKER.
4. BULLET BREAKER ORIENTATION: THE BREAKER WILL BE OFF WHEN THE HANDLE IS AT "DOWN" POSITON
   TPS FUSE HOLDER ORIENTATION: THE TOP PUSH–IN BULLET IS THE "LOAD" ONE

BULLET BREAKER ORIENTATION



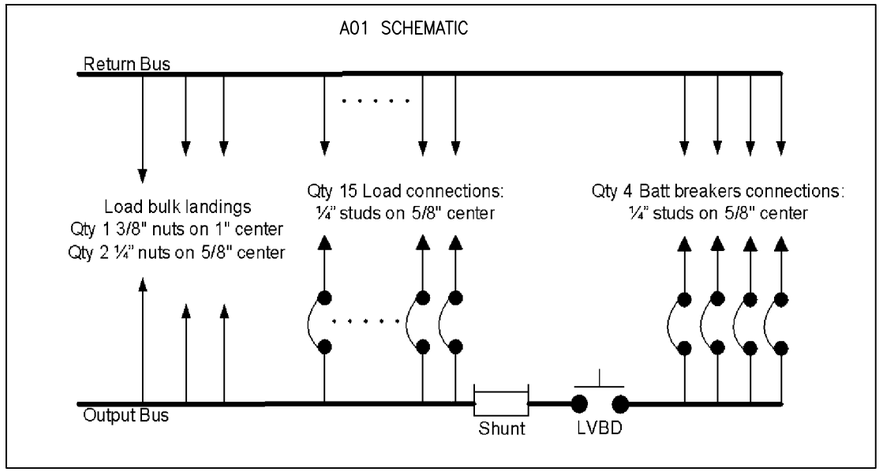
TPS FUSE HOLDER ORIENTATION

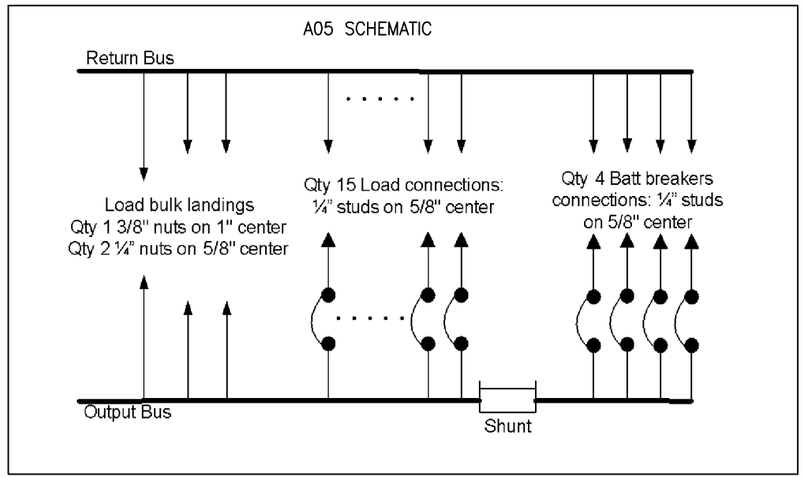


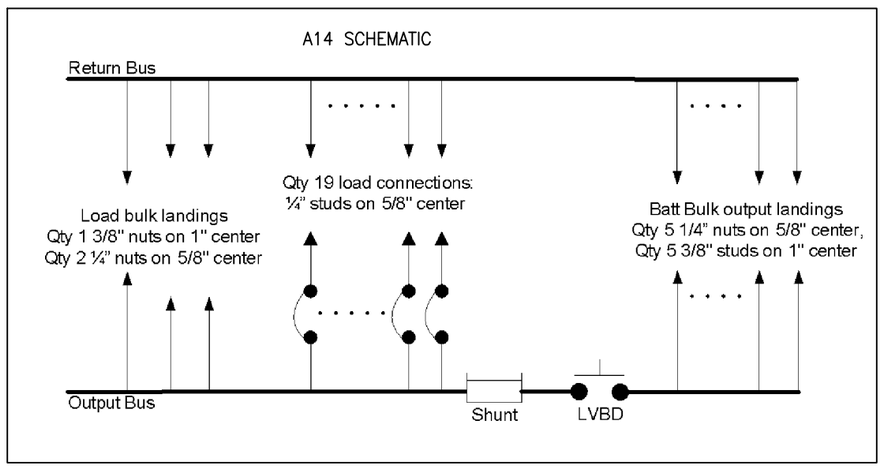
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

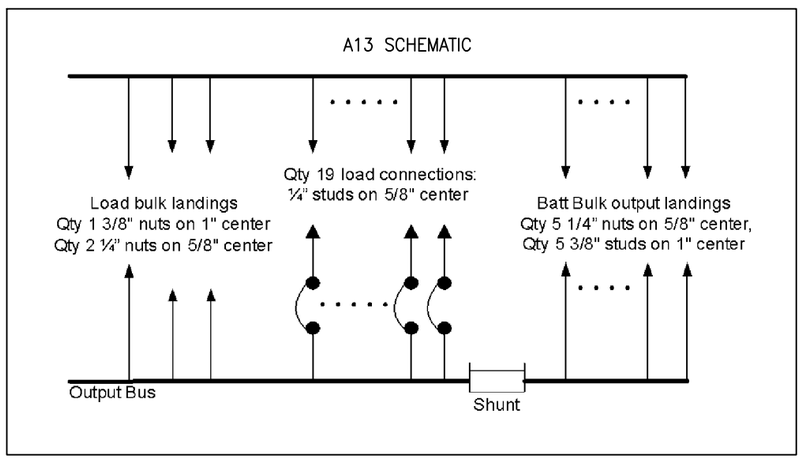
DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang / ENG. 07–10–13	ELTEK
DRAFTER FMH / DRAWN	
APPROVED / IFS	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE PRIMARY DISTRIBUTION
	DRAWING ISSUE DATE
	SECTION 2.0–CONTINUED
	DRAWING NUMBER 2127979

SECTION 2.1 19" PRIMARY DISTRIBUTION SCHEMATIC DRAWING



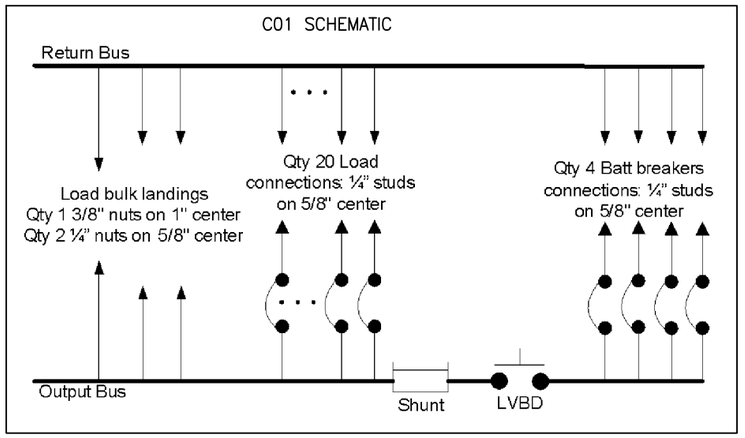


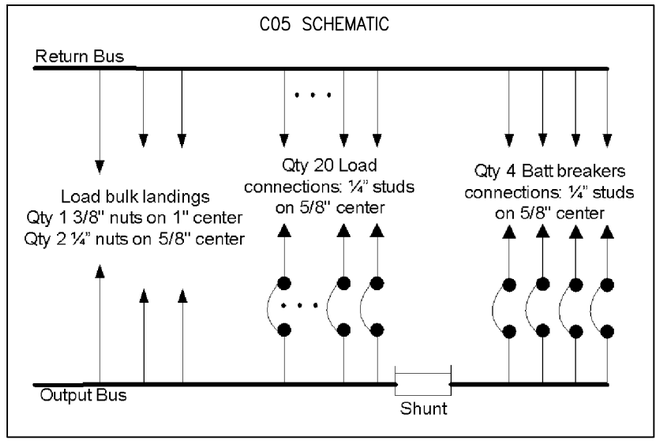


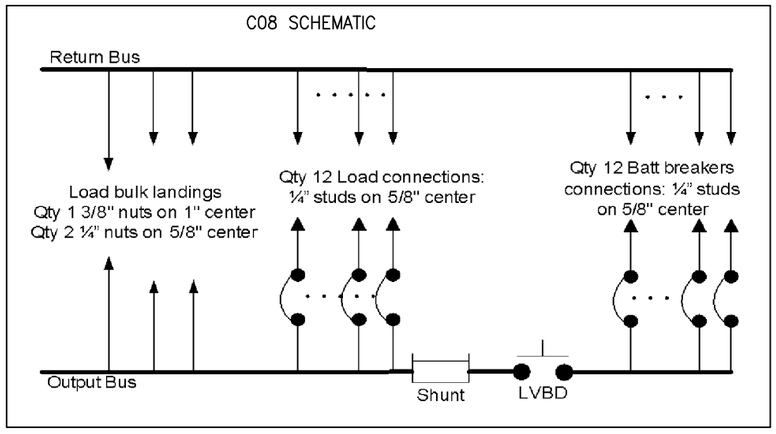


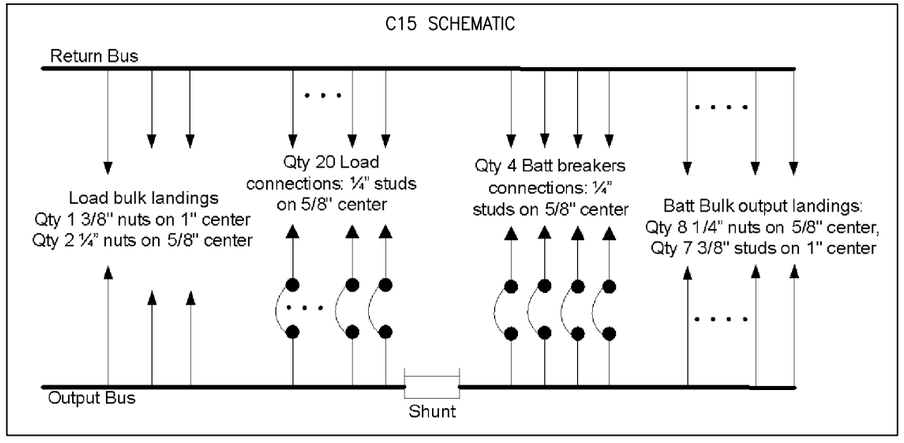
DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE		
ENGINEER Franky Huang	ENG. 02-14-14	ELTEK
DRAFTER FMH	DRAWN	
APPROVED	IFS	CAD AUTOCAD
		ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE PRIMARY DISTRIBUTION SCHEMATIC DRAWING
		DRAWING ISSUE DATE
		SECTION 2.1
		DRAWING NUMBER 2127979

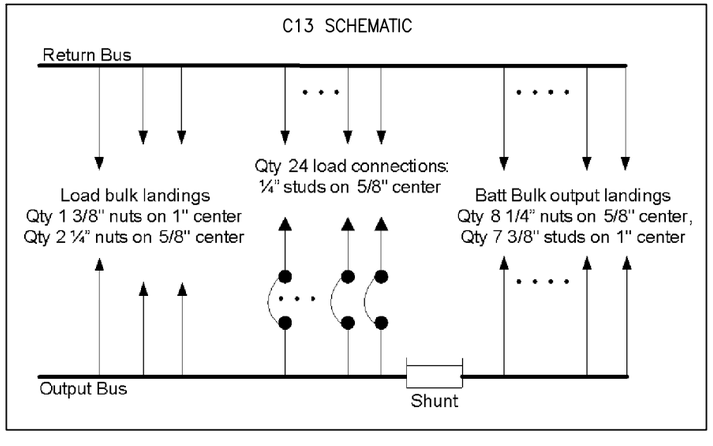
SECTION 2.1–CONTINUED 23" PRIMARY DISTRIBUTION DRAWING

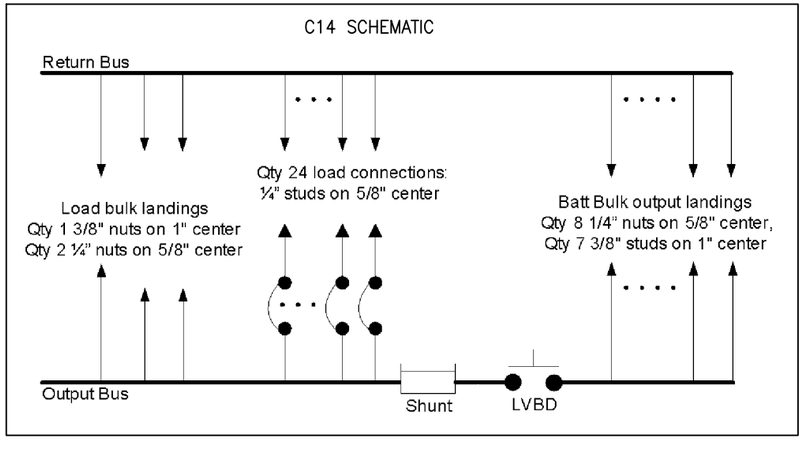








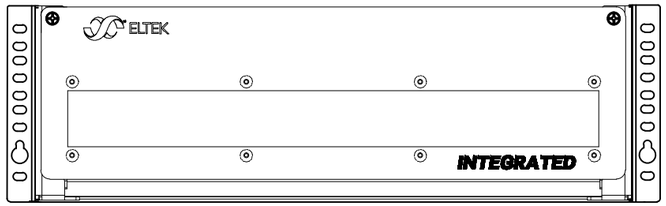




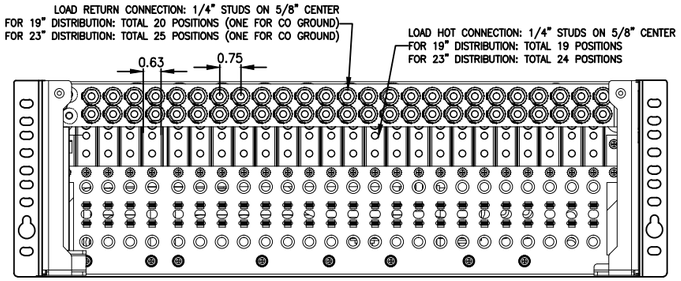
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang / ENG. 02–14–14	ELTEK
DRAFTER FMH / DRAWN	
APPROVED / IFS	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE PRIMARY DISTRIBUTION SCHEMATIC DRAWING
	DRAWING ISSUE DATE
	SECTION 2.1– CONTINUED
	DRAWING NUMBER 2127979

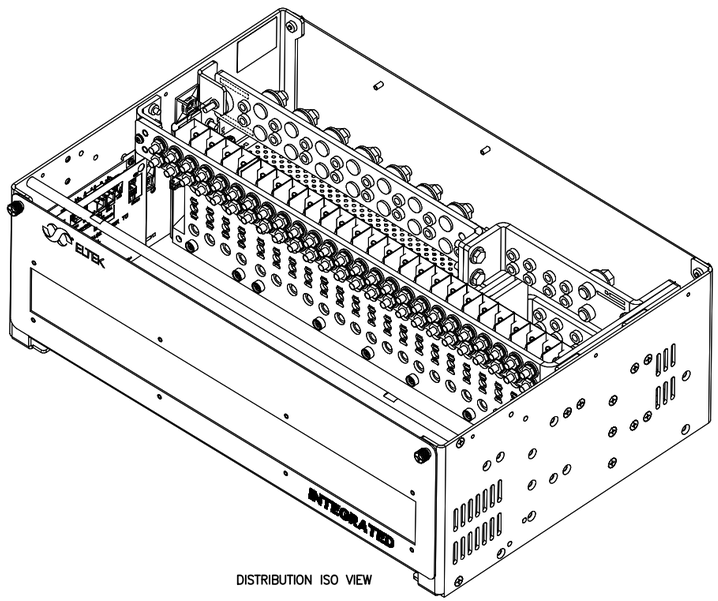
SECTION 2.2 PRIMARY DISTRIBUTION DRAWING



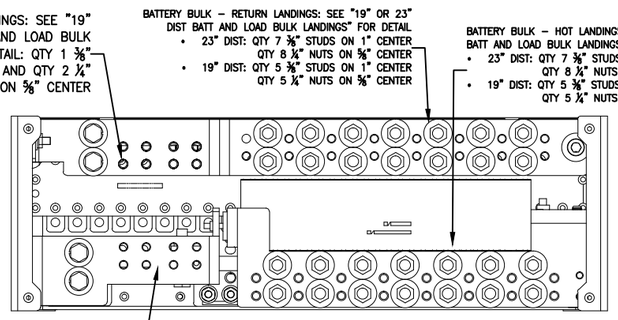
DISTRIBUTION FRONT VIEW WITH FRONT COVER



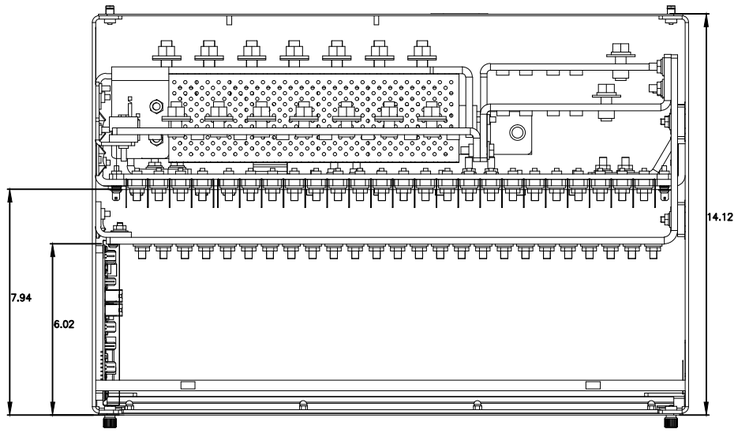
DISTRIBUTION FRONT VIEW WITHOUT FRONT COVER



DISTRIBUTION ISO VIEW

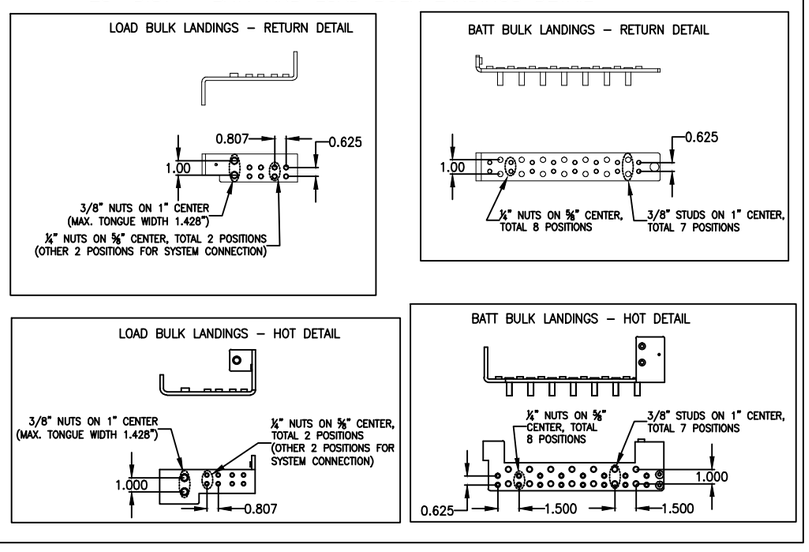


DISTRIBUTION REAR VIEW WITHOUT COVER

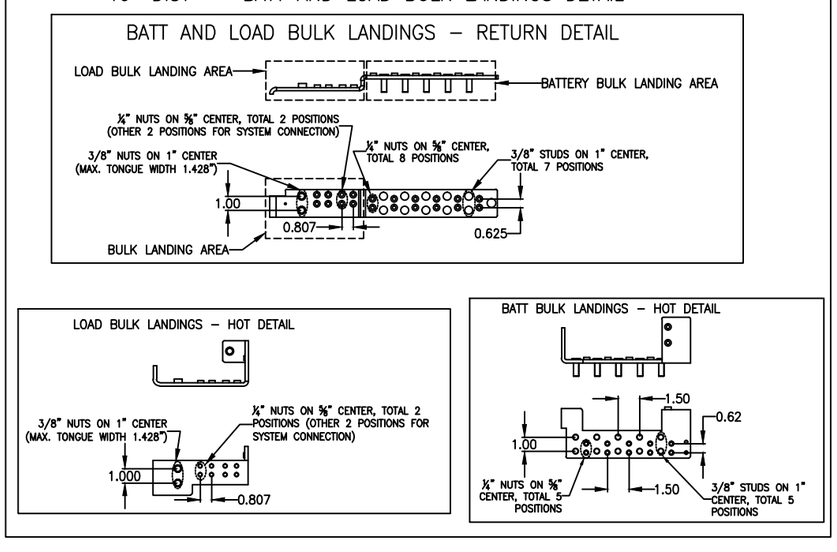


DISTRIBUTION TOP VIEW

23" DIST – BATT AND LOAD BULK LANDINGS DETAIL



19" DIST – BATT AND LOAD BULK LANDINGS DETAIL



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DESCRIPTION OF CHANGE PER ECO NO.		
NEW DRAWING RELEASE		
ENGINEER Franky Huang	ENG. 07–10–13	ELTEK
DRAFTER FMH	DRAWN	
APPROVED	IFS	CAD AUTOCAD
		ASSEMBLY DRAWING
		INTEGRATED POWER SYSTEM PRODUCT GUIDE
		PRIMARY DISTRIBUTION DRAWING
		DRAWING ISSUE DATE
		SECTION 2.2
		DRAWING NUMBER 2127979

SECTION 3.0 AUX DISTRIBUTION

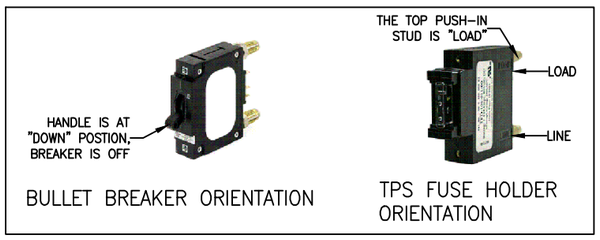
Q4850N-F23SCxx-D07

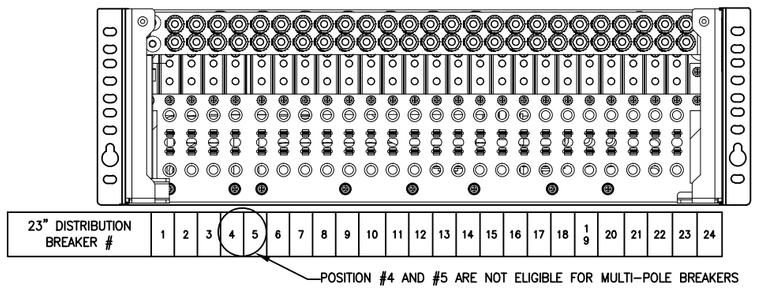
AUX DISTRIBUTION GROUP NUMBER, IF NOT SELECTED, LEAVE BLANK
- THE 1ST CHARACTER CAN BE "B04" OR "D07"; "B04" = 19" WIDE DIST; "D07" = 23" WIDE DIST

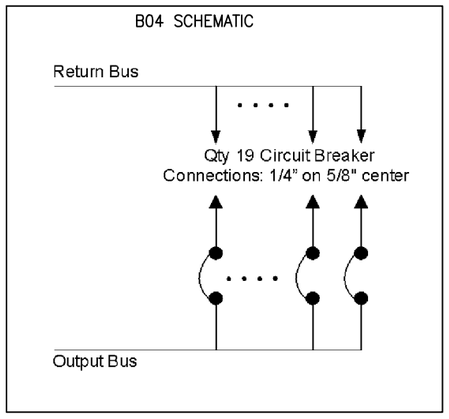
TABLE 3 AUX DC DISTRIBUTION LIST SELECT IF NECESSARY

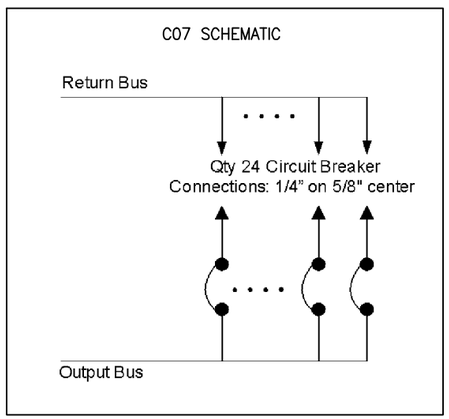
GROUP NUMBER	DESCRIPTION	SYSTEM VOLTAGE (VDC)	DISTRIBUTION CAPACITY (A)	LOAD BREAKER POSITIONS AND LANDINGS	BATTERY DISTRIBUTION				WIDTH (IN)	DEPTH (IN)	VERT. SPACE (RU)	EST. WEIGHT (LBS)	NOTE
					BATTERY BREAKER POSITIONS AND LANDINGS	# OF BULK BATT. CONNECTIONS	BATTERY SHUNT RATING	NO LVD, LVBD AND RATING					
B04	19" DISTRIBUTION WITH NO LVBD, REAR BATTERY CONNECTION ONLY -19" AUX DC DISTRIBUTION, 4U HIGH, 15" DEEP. QTY 19 LOAD BREAKER POSITION, CONNECTION ¼" ON ⅝" CENTER	±48 / ±24	500	QTY 19 ¼" ON ⅝" CTR	N/A	N/A	N/A	N/A	19	15	4	30	
D07	23" DISTRIBUTION WITH NO LVBD, REAR BATTERY CONNECTION ONLY -23" AUX DC DISTRIBUTION, 4U HIGH, 15" DEEP. QTY 24 LOAD BREAKER POSITION, CONNECTION ¼" ON ⅝" CENTER	±48 / ±24	500	QTY 24 ¼" ON ⅝" CTR	N/A	N/A	N/A	N/A	23	15	4	30	

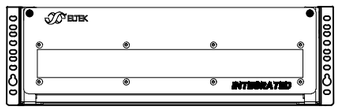
NOTE:
1. 1-POLE CIRCUIT BREAKER OCCUPIES 1 BREAKER POSITION; 1 TPS FUSE HOLDER OCCUPIES 1 BREAKER POSITION
2. 2-POLE CIRCUIT BREAKER OCCUPIES 2 BREAKER POSITIONS; 3-POLE CIRCUIT BREAKER OCCUPIES 3 BREAKER POSITIONS
3. FOR 23" DISTRIBUTION, BREAKER POSITIONS #4 AND #5 (FROM LEFT TO RIGNT IN FRONT VIEW) ARE NOT ELIGIBLE FOR MUTI-POLE BREAKER.
4. BULLET BREAKER ORIENTATION: THE BREAKER WILL BE OFF WHEN THE HANDLE IS AT "DOWN" POSITON
   TPS FUSE HOLDER ORIENTATION: THE TOP PUSH-IN BULLET IS THE "LOAD" ONE



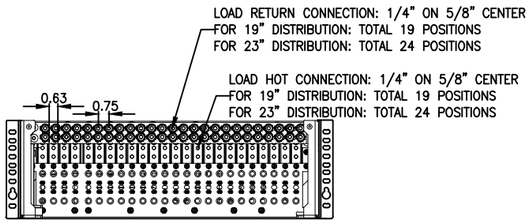




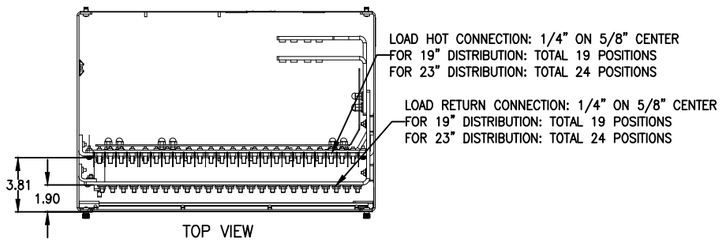




FRONT VIEW WITH COVER



FRONT VIEW WITHOUT COVER



TOP VIEW

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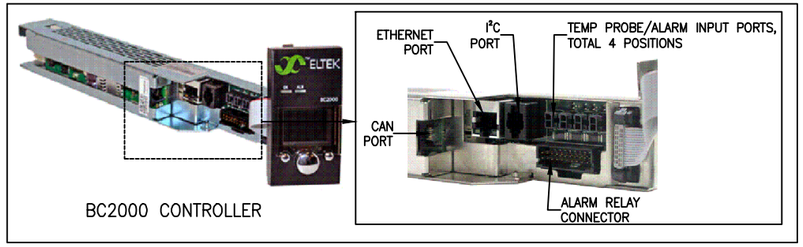
DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE		
ENGINEER Franky Huang	ENG. 07-10-13	ELTEK
DRAFTER FMH	DRAWN	
APPROVED	IFS	CAD AUTOCAD
		ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE PRIMARY DISTRIBUTION
		DRAWING ISSUE DATE
		SECTION 3.0
		DRAWING NUMBER 2127979

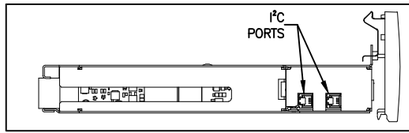
SECTION 4.0 CONTROLLER ACCESSORIES AND SPARE PARTS

TABLE 4A CONTROLLER SELECT ONE (EVERY SYSTEM MUST HAVE ONE CONTROLLER)

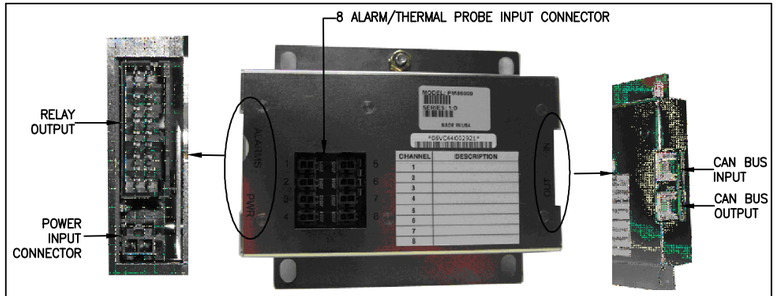
PART NUMBER	DESCRIPTION	SYSTEM VOLTAGE (VDC)	# OF OUTPUT RELAY	# OF CONFIGUABLE INPUT	WIDTH (IN)	DEPTH (IN)	HEIGHT (RU)	EST. WEIGHT (LBS)	CLEI/CPR	NOTE
BC2000-A01-10VC	CONTROLLER FOR 48V POWER SYSTEMS	48	6	4	1.81	10.8	2	0.66	YES	
BC2000-B01-10VV	CONTROLLER FOR 24V POWER SYSTEMS	24	6	4	1.81	10.8	2	0.66	NO	



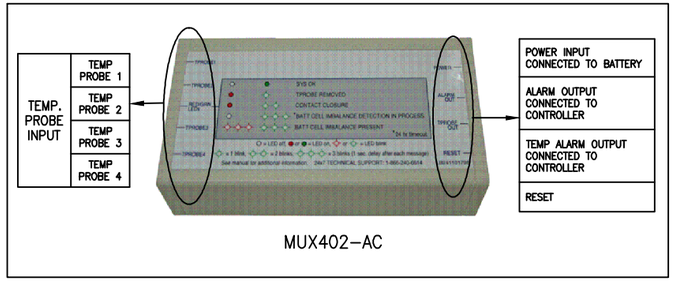
BC2000 CONTROLLER




EC1000 CONTROLLER



PM86001 PERIPHERAL(EXTENDED I/O) MONITOR



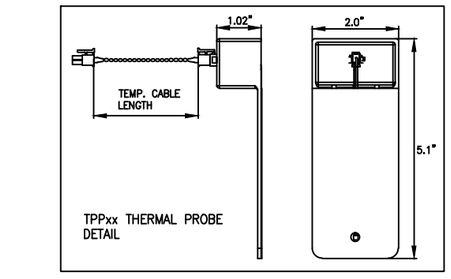
MUX402-AC

TABLE 4B CONTROLLER ACCESSORIES

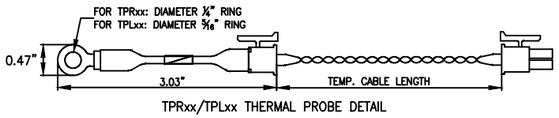
PART NUMBER	DESCRIPTION	OUTPUT	INPUT	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	EST. WEIGHT (LBS)	NOTE
EC1000-VC	EXPANSION CONTROLLER, WITH QTY 2 I²C PORTS FOR SECOND RECTIFIER SHELF, CAN ONLY BE USED WITH BC2000/1000 CONTROLLER.	N/A	N/A	1.81	10.8	2	0.66	
PM86001	PERIPHERAL MONITORING – PROVIDES QTY 8 INPUT PORTS (FOR ALARMS OR THERMAL PROBES) AND QTY 6 FORM-C OUTPUT ALARM RELAYS. – INCLUDING 10' CAN CABLE, POWER CABLE AND CAN TERMINATOR	6 RELAY OUTPUT	8 INPUT PORT FOR ALARMS OR THERMAL PROBES	5.4	4.3	1	1.5	MAX QTY 8 PER SYSTEM
MUX402-AC	MUX KIT, ALL CHANNEL MONITORING MIDPOINT MONITORING UP TO 2 BATTERY STRINGS, 4 TEMP PROBE POINTS INCLUDING: 1 FOUR-WIRE POWER CABLE (MONITORING BATTERY MIDPOINT VOLTAGE IMBALANCE), 1 ALARM OUTPUT CABLE, 1 TEMP ALARM OUTPUT CABLE	1 ALARM OUTPUT 1 TEMP. ALARM OUTPUT	UP TO 2 BATTERY MIDPOINT MONITORING INPUTS 4 TEMPERATURE PROBE INPUTS	4.3	2.6	1.1	1	

TABLE 4C THERMAL PROBE CABLES

PART NUMBER	DESCRIPTION	LENGTH (FT)	NOTE
TPP10	THERMAL PROBE KIT – PADDLE, 10 FT.	10	
TPP20	THERMAL PROBE KIT – PADDLE, 20 FT.	20	
TPP50	THERMAL PROBE KIT – PADDLE, 50FT.	50	
TPR10	THERMAL PROBE KIT-RING TERM ¼", 10 FT.	10	
TPR20	THERMAL PROBE KIT-RING TERM ¼", 20 FT.	20	
TPR30	THERMAL PROBE KIT-RING TERM ¼", 30 FT.	30	
TPR50	THERMAL PROBE KIT-RING TERM ¼", 50 FT.	50	
TPR100	THERMAL PROBE KIT-RING TERM ¼", 100 FT.	100	
TPL10	THERMAL PROBE KIT-RING TERM 5/16", 10 FT.	10	
TPL20	THERMAL PROBE KIT-RING TERM 5/16", 20 FT.	20	
TPL50	THERMAL PROBE KIT-RING TERM 5/16", 50 FT.	50	



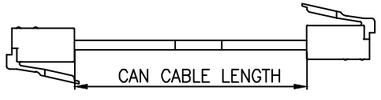
TPPxx THERMAL PROBE DETAIL



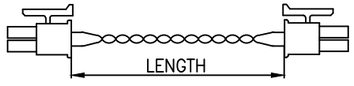
TPRxx/TPLxx THERMAL PROBE DETAIL

TABLE 4D AUXILIARY CABLES SELECT IF NECESSARY

PART NUMBER	DESCRIPTION	LENGTH (FT)	NOTE
CA210042996	PERIPHERAL MONITOR CAN CABLE 10'	10	
CA210042997	PERIPHERAL MONITOR CAN CABLE 50'	50	
CA210042998	PERIPHERAL MONITOR CAN CABLE 100'	100	
CA210022047	AUXILIARY INTERFACE CABLE, 10FT	10	
CA210022049	AUXILIARY INTERFACE CABLE, 20FT	20	
CA210022356	AUXILIARY INTERFACE CABLE, 50FT	50	
CA210022505	AUXILIARY INTERFACE CABLE, 100FT	100	
CA210063726	CABLE, CAN TERMINATION	N/A	



CAN CABLE



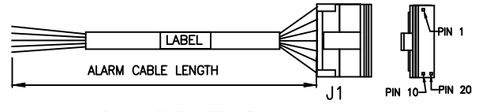
AUXILIARY INTERFACE CABLE

TABLE 4E ALARM CABLES

PART NUMBER	DESCRIPTION	LENGTH (FT)	NOTE
CA210203104	ALARM CABLE, 10', 24AWG SOLID, AMP CONNECTOR	10	
CA210203105	ALARM CABLE, 50', 24AWG SOLID, AMP CONNECTOR	50	
CA210203106	ALARM CABLE, 100', 24AWG SOLID, AMP CONNECTOR	100	

TABLE 4F J1 PIN DEFINITION

J1 PIN #	WIRE COLOR	WIRE LABEL TEXT	J1 PIN #	WIRE COLOR	WIRE LABEL TEXT
10	OR/WHT	A-NC	18	TAN/WHT	F-NC
8	OR/BLK	A-NO	20	TAN/BLK	F-NO
12	RED/WHT	B-NC	9	OR	A-C
14	RED/BLK	B-NO	13	RED	B-C
15	GRN/WHT	C-MC	16	FRN	C-C
17	GRN/BLK	C-NO	3	LT BL	E-C
4	LT BL/WHT	E-NC	6	YLW	D-C
2	LT BL/BLK	C-NO	19	TAN	F-C
7	YLW/WHT	D-NC	1	WHT	NOT USED
5	YLW/BLK	D-NO	11	BLK	NOT USED



ALARM CABLE DEFINITION

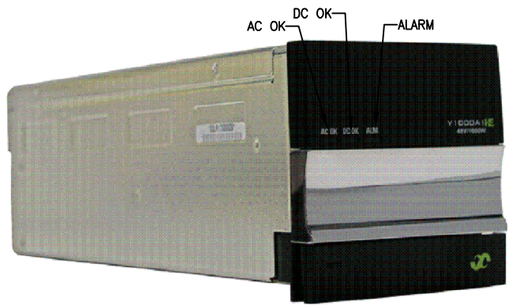
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

DESCRIPTION OF CHANGE PER ECO NO.	
NEW DRAWING RELEASE	
ENGINEER Franky Huang	ENG. 07-10-13
DRAFTER FMH	DRAWN
APPROVED	IFS
ELTEK	
CAD AUTOCAD	
ASSEMBLY DRAWING	
INTEGRATED POWER SYSTEM PRODUCT GUIDE CONTROLLER	
DRAWING ISSUE DATE	
SECTION 4.0	
DRAWING NUMBER 2127979	

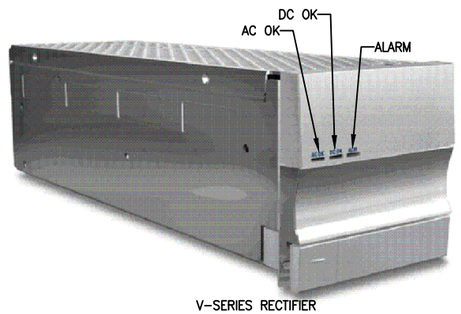
SECTION 5.0 RECTIFIER

TABLE 5 RECTIFIER LIST

PART NUMBER	DESCRIPTION	AC INPUT VOLTAGE (VAC)	MAX. INPUT CURRENT (A)	OUTPUT VOLTAGE(VDC)	OUTPUT POWER (W) @NOMINAL INPUT	OUTPUT CURRENT(A)	EFFICIENCY	AGENCY APPROVAL	WIDTH (IN)	DEPTH (IN)	HEIGHT (RU)	APPROXIMATE WEIGHT (LBS)	BTU/HR AT NOMINAL INPUT	ENERGY STAR	CLEI/CPR	NOTE
V1000A1-HE	RECTIFIER, 1120W, 53.5V, 20A, FAN COOLED (BOTTOM TO TOP) -INPUT: 90-264VAC, MAX. INPUT CURRENT:13.7A@90VAC, 6.33A@180VAC -OUTPUT: 48V/1120W OUTPUT, MAX. 20A -EFFICIENCY: 96.2% -OPERATING TEMPERATURE -40 TO +65'C; WEIGHT 7LBS	90-264	13.7A@90VAC 6.33A@180VAC	48	1120	20	>96.2%	CE, CSA, NEBS RoHS COMPLIANT	3.41	11.14	2	7	77 @ 50% LOAD 146 @ 100% LOAD	YES	YES	
V1500A1-HE	RECTIFIER, 1620W, 53.5V, 30A, FAN COOLED (BOTTOM TO TOP) -INPUT: 180-264VAC, MAX. INPUT CURRENT:9.87A@180VAC -OUTPUT: 48V/1420W OUTPUT, MAX. 30A -EFFICIENCY: 96.2% -OPERATING TEMPERATURE -40 TO +65'C; WEIGHT 7LBS	180-264	9.87A@180VAC	48	1680	30	>96.2%	CE, CSA, NEBS RoHS COMPLIANT	3.41	11.14	2	7	126 @ 50% LOAD 271 @ 100% LOAD	YES	YES	
V2000A1-HE	RECTIFIER, 2160W, 53.5V, 40A, FAN COOLED (BOTTOM TO TOP) -INPUT: 180-264VAC; MAX. INPUT CURRENT: 13.34A@180A; -OUTPUT: 48V/2160W OUTPUT, MAX. 40A -EFFICIENCY: 96.2% -OPERATING TEMPERATURE -40 TO +70'C; WEIGHT 7LBS	180-264	13.34A@180VAC	48	2160	40	>96.2%	CE, CSA, NEBS RoHS COMPLIANT	3.41	11.14	2	7	161 @ 50% LOAD 419 @ 100% LOAD	YES	YES	
VBLANK-HE	RECTIFIER VHE BLANK MODULE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.41	11.14	2	1	N/A	NO	YES	
V0500A-VC	RECTIFIER, 560W, 53.5V, 10A, FAN COOLED (BOTTOM TO TOP) -INPUT: 90-264VAC, MAX. INPUT CURRENT: 7.4A@90VAC, 3.6A@180VAC -OUTPUT: 48V/500W OUTPUT, MAX. 10A -EFFICIENCY: 88% -OPERATING TEMPERATURE -40 TO +65'C; WEIGHT 7LBS	90-264	7.4A@90VAC 3.6A@180VAC	48	560	10	>88%	CE, UL, CSA, NEBS RoHS COMPLIANT	3.41	11.14	2	7	173 @ 50% LOAD 244 @ 100% LOAD	NO	YES	
V0750A-VC	RECTIFIER, 840W, 53.5V, 15A, FAN COOLED (BOTTOM TO TOP) -INPUT: 90-264VAC, MAX INPUT CURRENT: 11.1A@90VAC, 5.4A@180VAC -OUTPUT: 48V/840W OUTPUT, MAX. 15A -EFFICIENCY: 91% -OPERATING TEMPERATURE -40 TO +65'C; WEIGHT 7LBS	90-264	11.1A@90VAC 5.5A@180VAC	48	840	15	>91%	CE, UL, NEBS RoHS COMPLIANT	3.41	11.14	2	7	166 @ 50% LOAD 280 @ 100% LOAD	NO	YES	
V1000A-VC	RECTIFIER, 1120W, 53.5V, 20A, FAN COOLED (BOTTOM TO TOP) -INPUT: 90-264VAC, MAX INPUT CURRENT: 14.6A@90VAC, 7.0A@180VAC -OUTPUT: 48V/1120W OUTPUT, MAX. 20A -EFFICIENCY: 91% -OPERATING TEMPERATURE -40 TO +65'C; WEIGHT 7LBS	90-264	14.6A@90VAC 7.6A@180VAC	48	1120	20	>91%	CE, UL, CSA, NEBS RoHS COMPLIANT	3.41	11.14	2	7	221 @ 50% LOAD 373 @ 100% LOAD	NO	YES	
V1250A-VC	RECTIFIER, 1400W, 53.5V, 25A, FAN COOLED (BOTTOM TO TOP) -INPUT: 90-264VAC, MAX INPUT CURRENT: 17.8A@90VAC, 9.0A@180VAC -OUTPUT: 48V/1400W OUTPUT, MAX. 25A -EFFICIENCY: 91% -OPERATING TEMPERATURE -40 TO +75'C; WEIGHT 7LBS	90-264	17.8A@90VAC 9.0A@180VAC	48	1400	25	>91%	CE, UL, NEBS RoHS COMPLIANT	3.41	11.14	2	7	276 @ 50% LOAD 467 @ 100% LOAD	NO	YES	
V1500A-VC	RECTIFIER, 1680W, 53.5V, 30A, FAN COOLED (BOTTOM TO TOP) -INPUT: 180-264VAC, MAX INPUT CURRENT: 10.4A@180VAC -OUITPUT: 48V/1680W OUTPUT, MAX. 30A -EFFICIENCY: 92% -OPERATING TEMPERATURE -40 TO +65'C; WEIGHT 7LBS	180-264	10.4A@180VAC	48	1680	30	>92%	CE, UL, CSA, NEBS RoHS COMPLIANT	3.41	11.14	2	7	294 @ 50% LOAD 619 @ 100% LOAD	NO	YES	
V2000A-VC	RECTIFIER, 2240W, 53.5V, 40A, FAN COOLED (BOTTOM TO TOP) -INPUT: 180-264VAC, MAX INPUT CURRENT: 14.5A@180VAC -OUTPUT: 48V/2240W OUTPUT, MAX. 40A -EFFICIENCY: 92% EFFICIENCY -OPERATING TEMPERATURE -40 TO +70'C; WEIGHT 7LBS	180-264	14.6A@180VAC	48	2240	40	>92%	CE, UL, NEBS RoHS COMPLIANT	3.41	11.14	2	7	339 @ 50% LOAD 733 @ 100% LOAD	NO	YES	
V2500A-VC	RECTIFIER, 2800W, 53.5V, 50A, FAN COOLED (BOTTOM TO TOP) -INPUT: 180-264VAC, MAX INPUT CURRENT: 17.4A@180VAC -OUTPUT: 48V/2800W OUTPUT, MAX 50A -EFFICIENCY: 92% -OPERATING TEMPERATURE -40 TO +65'C; WEIGHT 7LBS	180-264	18.2A@180VAC	48	2800	50	>92%	CE, UL, NEBS RoHS COMPLIANT	3.41	11.14	2	7	424 @ 50% LOAD 916 @ 100% LOAD	NO	YES	
V1000B-VC	RECTIFIER 24V, 1120W, 40A OUTPUT, FAN COOLED (BOTTOM TO TOP) -INPUT: 90-264VAC, MAX INPUT CURRENT: 14.6A@90A, 7.3A@180VAC -OUTPUT: 24V/1120W OUTPUT, MAX. 40A -EFFICIENCY: 90% -OPERATING TEMPERATURE -40 TO +73'C; WEIGHT 7LBS	90-264	14.6A@90VAC 7.3A@180VAC	24	1120	40	>90%	CE, UL, NEBS RoHS COMPLIANT	3.41	11.14	2	7	283 @ 50% LOAD 469 @ 100% LOAD	NO	YES	
V1500B-VC	RECTIFIER 24V, 1680W, 60A OUTPUT, FAN COOLED (BOTTOM TO TOP) -INPUT: 180-264VAC, MAX. INPUT CURRENT: 10.9A@180VAC -OUTPUT: 24V/16800W OUTPUT, MAX. 60A -EFFICIENCY: 90% -OPERATING TEMPERATURE -40 TO +73'C; WEIGHT 7LBS	180-264	10.9A@180VAC	24	1680	60	>90%	CE, UL, NEBS RoHS COMPLIANT	3.41	11.14	2	7	425 @ 50% LOAD 703 @ 100% LOAD	NO	YES	
VBLANK-VC	BLANK V-SERIES RECTIFIER CHASSIS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.41	11.14	2	1	N/A	NO	YES	



V-SERIES HE RECTIFIER



V-SERIES RECTIFIER

ELTEK CONFIDENTIAL & PROPRIETARY – USE PURSUANT TO COMPANY INSTRUCTION
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UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

DESCRIPTION OF CHANGE PER ECO NO. NEW DRAWING RELEASE	
ENGINEER Franky Huang	ENG. 07-10-13
DRAFTER FMH	DRAWN
APPROVED	IFS
	CAD AUTOCAD
	ASSEMBLY DRAWING INTEGRATED POWER SYSTEM PRODUCT GUIDE RECTIFIER
	DRAWING ISSUE DATE
	SECTION 5.0
	DRAWING NUMBER 2127979

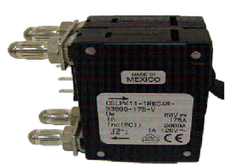
ELTEK

SECTION 6.0 BREAKER

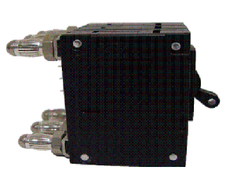
TABLE 6A BULLET BREAKER LIST

PART NUMBER	DESCRIPTION	SIZE (A)	NUMBER OF POLES	NOTE
CBB005E	BULLET BREAKER, 5 AMP, ELECTRO MECHANICAL	5	1	
CBB010E	BULLET BREAKER, 10 AMP, ELECTRO MECHANICAL	10	1	
CBB015E	BULLET BREAKER, 15 AMP, ELECTRO MECHANICAL	15	1	
CBB020E	BULLET BREAKER, 20 AMP, ELECTRO MECHANICAL	20	1	
CBB025E	BULLET BREAKER, 25 AMP, ELECTRO MECHANICAL	25	1	
CBB030E	BULLET BREAKER, 30 AMP, ELECTRO MECHANICAL	30	1	
CBB040E	BULLET BREAKER, 40 AMP, ELECTRO MECHANICAL	40	1	
CBB050E	BULLET BREAKER, 50 AMP, ELECTRO MECHANICAL	50	1	
CBB060E	BULLET BREAKER, 60 AMP, ELECTRO MECHANICAL	60	1	
CBB075E	BULLET BREAKER, 75 AMP, ELECTRO MECHANICAL	75	1	
CBB090E	BULLET BREAKER, 90 AMP, ELECTRO MECHANICAL	90	1	
CBB100E	BULLET BREAKER, 100 AMP, ELECTRO MECHANICAL	100	1	
CBB125E	BULLET BREAKER, 125 AMP, ELECTRO MECHANICAL WITH DOUBLE POLE ADAPTOR	125	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB150E	BULLET BREAKER, 150 AMP, ELECTRO MECHANICAL WITH DOUBLE POLE ADAPTOR	150	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB175E	BULLET BREAKER, 175 AMP, ELECTRO MECHANICAL WITH DOUBLE POLE ADAPTOR	175	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB200E	BULLET BREAKER, 200 AMP, ELECTRO MECHANICAL WITH DOUBLE POLE ADAPTOR	200	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB250E	BULLET BREAKER, 250 AMP, ELECTRO MECHANICAL WITH TRIPLE POLE ADAPTOR	250	3	SEE "TRIPLE POLE ADAPTOR" FOR DETAIL
CBB005M	BULLET BREAKER, 5 AMP, MID-TRIP W WHITE HANDLE	5	1	
CBB010M	BULLET BREAKER, 10 AMP, MID-TRIP W WHITE HANDLE	10	1	
CBB015M	BULLET BREAKER, 15 AMP, MID-TRIP W WHITE HANDLE	15	1	
CBB020M	BULLET BREAKER, 20 AMP, MID-TRIP W WHITE HANDLE	20	1	
CBB025M	BULLET BREAKER, 25 AMP, MID-TRIP W WHITE HANDLE	25	1	
CBB030M	BULLET BREAKER, 30 AMP, MID-TRIP W WHITE HANDLE	30	1	
CBB040M	BULLET BREAKER, 40 AMP, MID-TRIP W WHITE HANDLE	40	1	
CBB050M	BULLET BREAKER, 50 AMP, MID-TRIP W WHITE HANDLE	50	1	
CBB060M	BULLET BREAKER, 60 AMP, MID-TRIP W WHITE HANDLE	60	1	
CBB075M	BULLET BREAKER, 75 AMP, MID-TRIP W WHITE HANDLE	75	1	
CBB090M	BULLET BREAKER, 90 AMP, MID-TRIP W WHITE HANDLE	90	1	
CBB100M	BULLET BREAKER, 100 AMP, MID-TRIP W WHITE HANDLE	100	1	
CBB125M	BULLET BREAKER, 125 AMP, MID-TRIP W WHITE HANDLE AND DOUBLE POLE ADAPTOR (5/16" ON 1" CENTER)	125	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB150M	BULLET BREAKER, 150 AMP, MID-TRIP W WHITE HANDLE AND DOUBLE POLE ADAPTOR (5/16" ON 1" CENTER)	150	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB175M	BULLET BREAKER, 175 AMP, MID-TRIP W WHITE HANDLE AND DOUBLE POLE ADAPTOR (5/16" ON 1" CENTER)	175	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB200M	BULLET BREAKER, 200 AMP, MID-TRIP W WHITE HANDLE AND DOUBLE POLE ADAPTOR (5/16" ON 1" CENTER)	200	2	SEE "DOUBLE POLE ADAPTOR" FOR DETAIL
CBB250M	BULLET BREAKER, 250 AMP, MID-TRIP W WHITE HANDLE AND TRIPLE POLE ADAPTOR (3/8" ON 1" CENTER)	250	3	SEE "TRIPLE POLE ADAPTOR" FOR DETAIL
CBB0000	BULLET BREAKER STRAP, 100A, PLUG-IN	100	1	

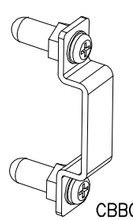
1P BULLET BREAKER



2P BULLET BREAKER



3P BULLET BREAKER

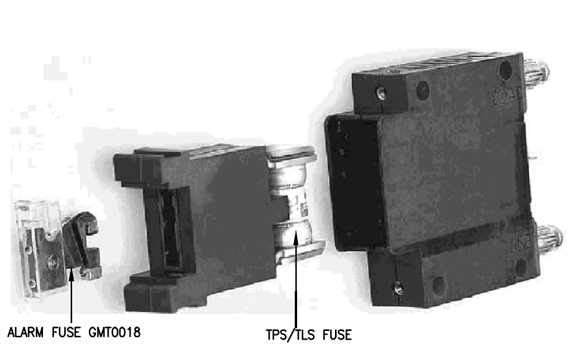


CBB000

TABLE 6B TPS LIST

PART NUMBER	DESCRIPTION	SIZE(A)	NUMBER OF POLES	NOTE
TPSB100	FUSE HOLDER, TPS IN BULLET BKR FORM	1-125	1	
TPS002	FUSE, TPS STYLE, 2 AMP	2	1	
TPS006	FUSE, TPS STYLE, 6 AMP	6	1	
TPS010	FUSE, TPS STYLE, 10 AMP	10	1	
TPS015	FUSE, TPS STYLE, 15 AMP	15	1	
TPS020	FUSE, TPS STYLE, 20 AMP	20	1	
TPS025	FUSE, TPS STYLE, 25 AMP	25	1	
TPS030	FUSE, TPS STYLE, 30 AMP	30	1	
TPS040	FUSE, TPS STYLE, 40 AMP	40	1	
TPS050	FUSE, TPS STYLE, 50 AMP	50	1	
TPS060	FUSE, TPS STYLE, 60 AMP	60	1	
TPS070	FUSE, TPS STYLE, 70 AMP	70	1	
TPS100	FUSE, TPS STYLE, 100 AMP	100	1	
282625	FUSE, TPS STYLE, 125 AMP	125	1	

NOTE:
1. EACH TLS/TPS FUSE REQUIRES ONE TLS/TPS FUSE HOLDER
2. THE ALARM FUSE ON TPS/TLS FUSE HOLDER IS GMT0018, WHICH IS INCLUDED IN THE FUSE HOLDER
3. TLS/TPS FUSE HOLDER IS THE SAME SIZE AS A 1-POLE BULLET BREAKER

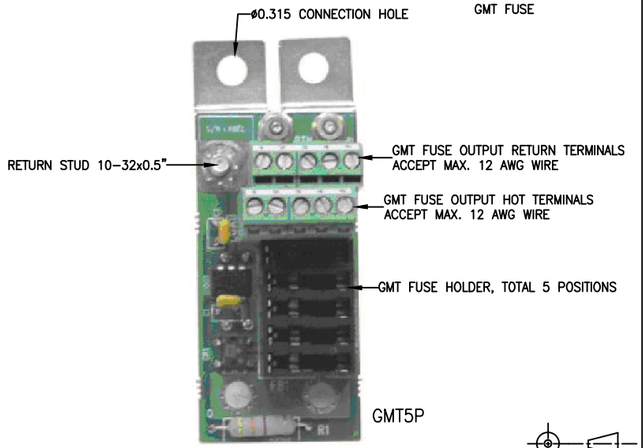


TPS/TLS FUSE ASSEMBLY

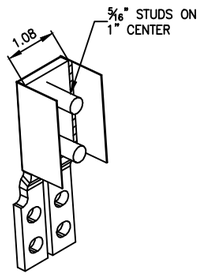
TABLE 6C GMT FUSE LIST

PART NUMBER	DESCRIPTION	SIZE (A)	NOTE
GMT5P	MODULE, 5 GMT POSITIONS FOR BB PANEL		OCCUPIES 2 CIRCUIT BREAKER POSITIONS
GMT0018	GMT FUSE 60VDC/125VAC 0.18 A	0.18	
1125230625	GMT FUSE 60VDC/125VAC 0.25A	0.25	
233413	GMT FUSE 60VDC/125VAC 0.75A	0.75	
1125230010	GMT FUSE 60VDC/125VAC 1A	1	
1125230013	GMT FUSE 60VDC/125VAC 1.3A	1.3	
GMT0200	GMT FUSE 60VDC/125VAC 2A	2	
GMT0300	GMT FUSE 60VDC/125VAC 3A	3	
1125230050	GMT FUSE 60VDC/125VAC 5A	5	
GMT0700	GMT FUSE 60VDC/125VAC 7A	7	
GMT0750	GMT FUSE 60VDC/125VAC 7.5A	7.5	
GMT1000	GMT FUSE 60VDC/125VAC 10A	10	
236857	GMT FUSE 60VDC/125VAC 12A	10	
1125230115	GMT FUSE 60VDC/125VAC 15A	15	

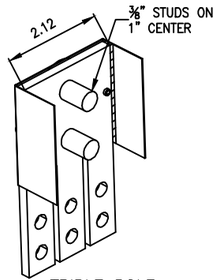
GMT FUSE



GMT5P



DOUBLE POLE ADAPTOR



TRIPLE POLE ADAPTOR

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

DESCRIPTION OF CHANGE PER ECO NO.	
NEW DRAWING RELEASE	
ENGINEER Franky Huang / ENG. 07-10-13	ELTEK
DRAFTER FMH / DRAWN	
APPROVED / IFS	CAD AUTOCAD
	ASSEMBLY DRAWING
	INTEGRATED POWER SYSTEM PRODUCT GUIDE
	BREAKER
	DRAWING ISSUE DATE
	SECTION 6.0
	DRAWING NUMBER 2127979

SECTION 7.0 AC LINE CORD

TABLE 7A LL LINE CORD LIST

PART NUMBER	SHELF CONNECTOR	AC SOURCE CONNECTOR	LENGTH (FT)	WIRE GAUGE (AWG)
LL1006-UU	ONE-HOLE LUG	UNTERMINATED	10	6
LL1008-L550P	ONE-HOLE LUG	NEMA L550P	10	8
LL1008-L650P	ONE-HOLE LUG	NEMA L650P	10	8
LL1008-N550P	ONE-HOLE LUG	NEMA N550P	10	8
LL1008-UU	ONE-HOLE LUG	UNTERMINATED	10	8
LL2008-UU	ONE-HOLE LUG	UNTERMINATED	20	8
LL2008-L620P	ONE-HOLE LUG	NEMA L620P	20	8
LL1010-L530P	ONE-HOLE LUG	NEMA L530P	10	10
LL1010-L620P	ONE-HOLE LUG	NEMA L620P	10	10
LL1010-N530P	ONE-HOLE LUG	NEMA N530P	10	10
LL1010-UU	ONE-HOLE LUG	UNTERMINATED	10	10
LL1510-L630P	ONE-HOLE LUG	NEMA L630P	15	10
LL2010-L530P	ONE-HOLE LUG	NEMA L530P	20	10
LL2010-L630P	ONE-HOLE LUG	NEMA L630P	20	10
LL2010-UU	ONE-HOLE LUG	UNTERMINATED	20	10
LL2510-L630P	ONE-HOLE LUG	NEMA L630P	25	10
LL1012-L520P	ONE-HOLE LUG	NEMA L520P	10	12
LL1012-L620P	ONE-HOLE LUG	NEMA L620P	10	12
LL1012-N520P	ONE-HOLE LUG	NEMA N520P	10	12
LL1012-UU	ONE-HOLE LUG	UNTERMINATED	10	12
LL2012-L620P	ONE-HOLE LUG	NEMA L620P	20	12
LL2012-UU	ONE-HOLE LUG	UNTERMINATED	20	12
LL2512-UU	ONE-HOLE LUG	UNTERMINATED	25	12
LL1014-L515P	ONE-HOLE LUG	NEMA L515P	10	14
LL1014-L615P	ONE-HOLE LUG	NEMA L615P	10	14
LL1014-N515P	ONE-HOLE LUG	NEMA N515P	10	14
LL1014-N615P	ONE-HOLE LUG	NEMA N615P	10	14
LL1014-UU	ONE-HOLE LUG	UNTERMINATED	10	14

TABLE 7B LM LINE CORD LIST

PART NUMBER	SHELF CONNECTOR	AC SOURCE CONNECTOR	LENGTH (FT)	WIRE GAUGE (AWG)
LM1006-UU	MOLEX	UNTERMINATED	10	6
LM1008-L550P	MOLEX	NEMA L550P	10	8
LM1008-UU	MOLEX	UNTERMINATED	10	8
LM2008-UU	MOLEX	UNTERMINATED	20	8
LM3008-UU	MOLEX	UNTERMINATED	30	8
LM1010-L1430P	MOLEX	NEMA L1430P	10	10
LM1010-L530P	MOLEX	NEMA L530P	10	10
LM1010-L630P	MOLEX	NEMA L630P	10	10
LM1010-N530P	MOLEX	NEMA N530P	10	10
LM1010-UU	MOLEX	UNTERMINATED	10	10
LM1510-L530P	MOLEX	NEMA L530P	15	10
LM1510-L630P	MOLEX	NEMA L630P	15	10
LM2010-L530P	MOLEX	NEMA L530P	20	10
LM2010-L630P	MOLEX	NEMA L630P	20	10
LM2010-UU	MOLEX	UNTERMINATED	20	10
LM2510-L530P	MOLEX	NEMA L530P	25	10
LM2510-L630P	MOLEX	NEMA L630P	25	10
LM2510-UU	MOLEX	UNTERMINATED	25	10
LM0412-L620P	MOLEX	NEMA L620P	4	12
LM1012-L520P	MOLEX	NEMA L520P	10	12
LM1012-L620P	MOLEX	NEMA L620P	10	12
LM1012-N520P	MOLEX	NEMA N520P	10	12
LM1012-N620P	MOLEX	NEMA N620P	10	12
LM1012-UU	MOLEX	UNTERMINATED	10	12
LM1512-L515P	MOLEX	NEMA L515P	15	12
LM2012-N515P	MOLEX	NEMA N515P	20	12
LM2012-UU	MOLEX	UNTERMINATED	20	12
LM1014-N515P	MOLEX	NEMA N515P	10	14
LM1014-UU	MOLEX	UNTERMINATED	10	14

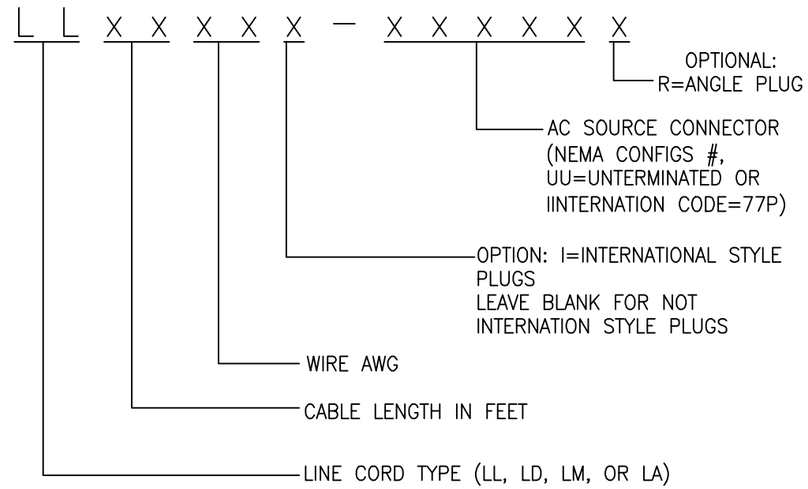
TABLE 7C LD LINE CORD LIST

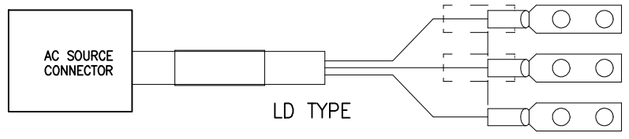
PART NUMBER	SHELF CONNECTOR	AC SOURCE CONNECTOR	LENGTH (FT)	WIRE GAUGE (AWG)
LD1004-UU	TWO-HOLE LUG	UNTERMINATED	10	4
LD1006-UU	TWO-HOLE LUG	UNTERMINATED	10	6
LD1010-L630P	TWO-HOLE LUG	NEMA L630P	10	10

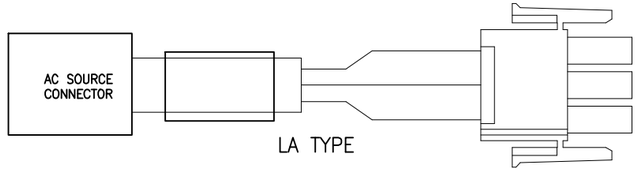
TABLE 7D LA LINE CORD LIST

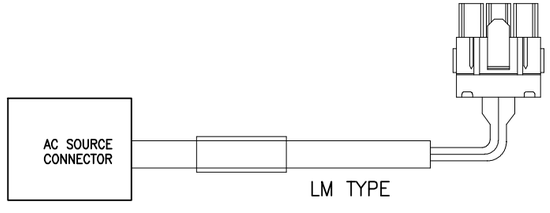
PART NUMBER	SHELF CONNECTOR	AC SOURCE CONNECTOR	LENGTH (FT)	WIRE GAUGE (AWG)
LA1010-L630P	AMP	NEMA L630P	10	10
LA1010-UU	AMP	UNTERMINATED	10	10
LA2010-UU	AMP	UNTERMINATED	20	10
LA1012-L620P	AMP	NEMA L620P	10	12
LA1012-N520P	AMP	NEMA N520P	10	12
LA1012-UU	AMP	UNTERMINATED	10	12
LA2012-UU	AMP	UNTERMINATED	20	12
LA1014-L515P	AMP	NEMA L515P	10	14
LA1014-UU	AMP	UNTERMINATED	10	14

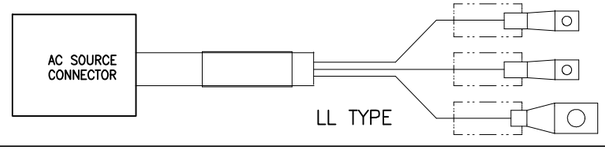
LINE CORD P/N NAMING CONVENTION:











NOTE: SEE P/N CA113002282 FOR AC CABLE DRAWING DETAIL

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONAL TOLERANCES ARE ±.015

DESCRIPTION OF CHANGE PER ECO NO.	
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ENGINEER Franky Huang	ENG. 07-10-13
DRAFTER FMH	DRAWN
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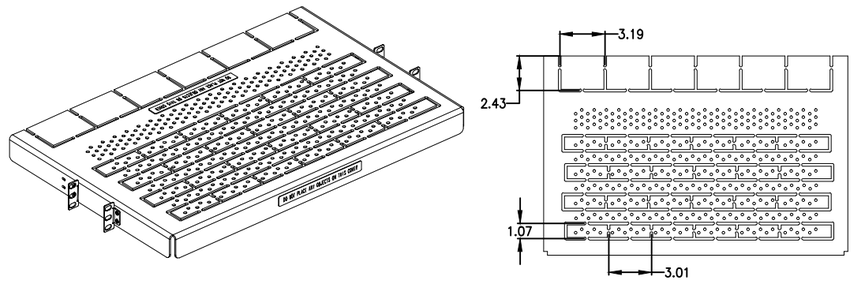
	CAD AUTOCAD
	ASSEMBLY DRAWING
	INTEGRATED POWER SYSTEM PRODUCT GUIDE
	AC LINE CORD
	DRAWING ISSUE DATE
	SECTION 7.0
	DRAWING NUMBER 2127979

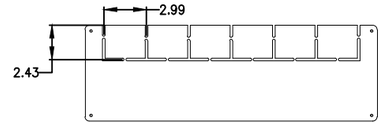
ELTEK

SECTION 7.1 SYSTEM ACCESSORIES

TABLE 7E SYSTEM ACCESSORIES		
PART NUMBER	DESCRIPTION	NOTE
IPCV19	TOP LEXAN COVER KIT FOR 19" DISTRIBUTION	
IPCV23	TOP LEXAN COVER KIT FOR 23" DISTRIBUTION	
324389	REAR LEXAN COVER KIT FOR 19" DISTRIBUTION	
324385	REAR LEXAN COVER KIT FOR 23" DISTRIBUTION	



IPCV19 OR IPCV23 TOP LEXAN COVER
(IPCV23 DRAWING SHOWN FOR REFERENCE)



324389 OR 324385 REAR LEXAN COVER
(324385 DRAWING SHOWN FOR REFERENCE)

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		DRAWING ISSUE DATE
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		DRAWING NUMBER 2127979

SECTION 8.0 CUSTOMER REFERENCE

TABLE 8 CUSTOMER REFERENCE DOCUMENTS

NO.	DOCUMENT NO.	DOCUMENT DESCRIPTION	NOTE
1	2056560	INTEGRATED SYSTEMS I/O MANUAL – DO600000029	
2	2052284	INTEGRATED SYSTEMS PRODUCT FLYER	
3	2052575	BC2000 CONTROLLER PRODUCT FLYER	
4	2093975	BC2000 QUICK REFERENCE GUIDE	
5	2055882	BC2000/JC2000 Display Manual	
6	2056625	BC2000/JC2000 WEB INTERFACE MANUAL	
7	2152133	PROCEDURE – BC2000 CONTROLLER PROFILE UPLOAD	
8	2061910	BC2000 FIRMWARE UPDATE PROCEDURE	
9	2052368	V SERIES RECTIFIER DATASHEET	
10	2075524	INSTALLATION GUIDE – DUAL INTEGRATED PLANT CABLING	
11	2048969	BC2000/JC2000 TL1 PROTOCOL USER'S GUIDE	
12	2094327	BC2000/JC2000 TELNET MANUAL	
13	2107577	PROCEDURE – CHANGING THERMAL COMP HIGH TEMP START VALUE BC2000 DISPLAY	
14	2049622	GMT5P INSTALLATION GUIDE – DO600000126	
15	370012.033	INSTALLATION GUIDE – PM86001 PERIPHERAL MONITORS	
16	2075524	INSTALLATION GUIDE – DUAL INTEGRATED SYSTEM CONFIGURATION GUIDE	

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

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		DRAWING NUMBER 2127979