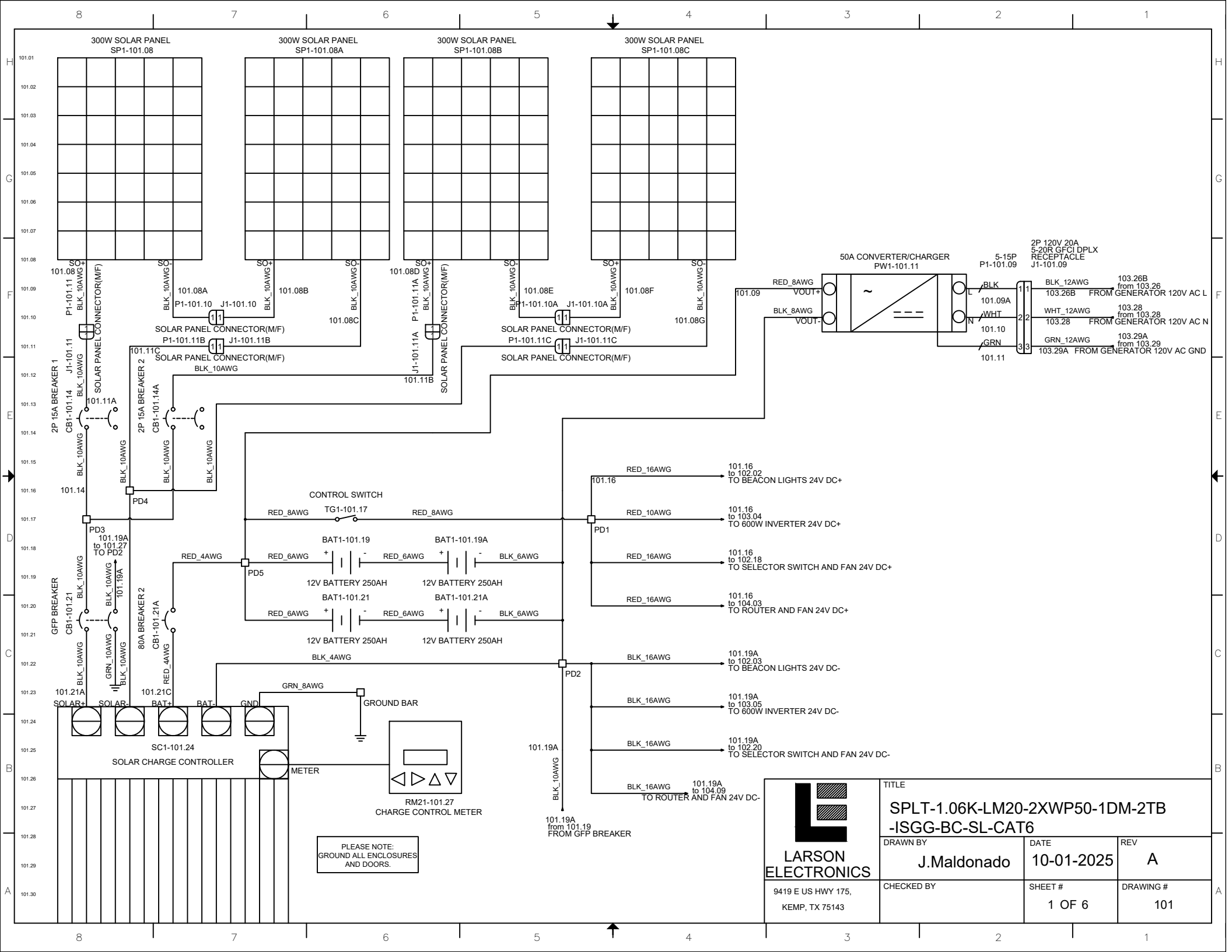
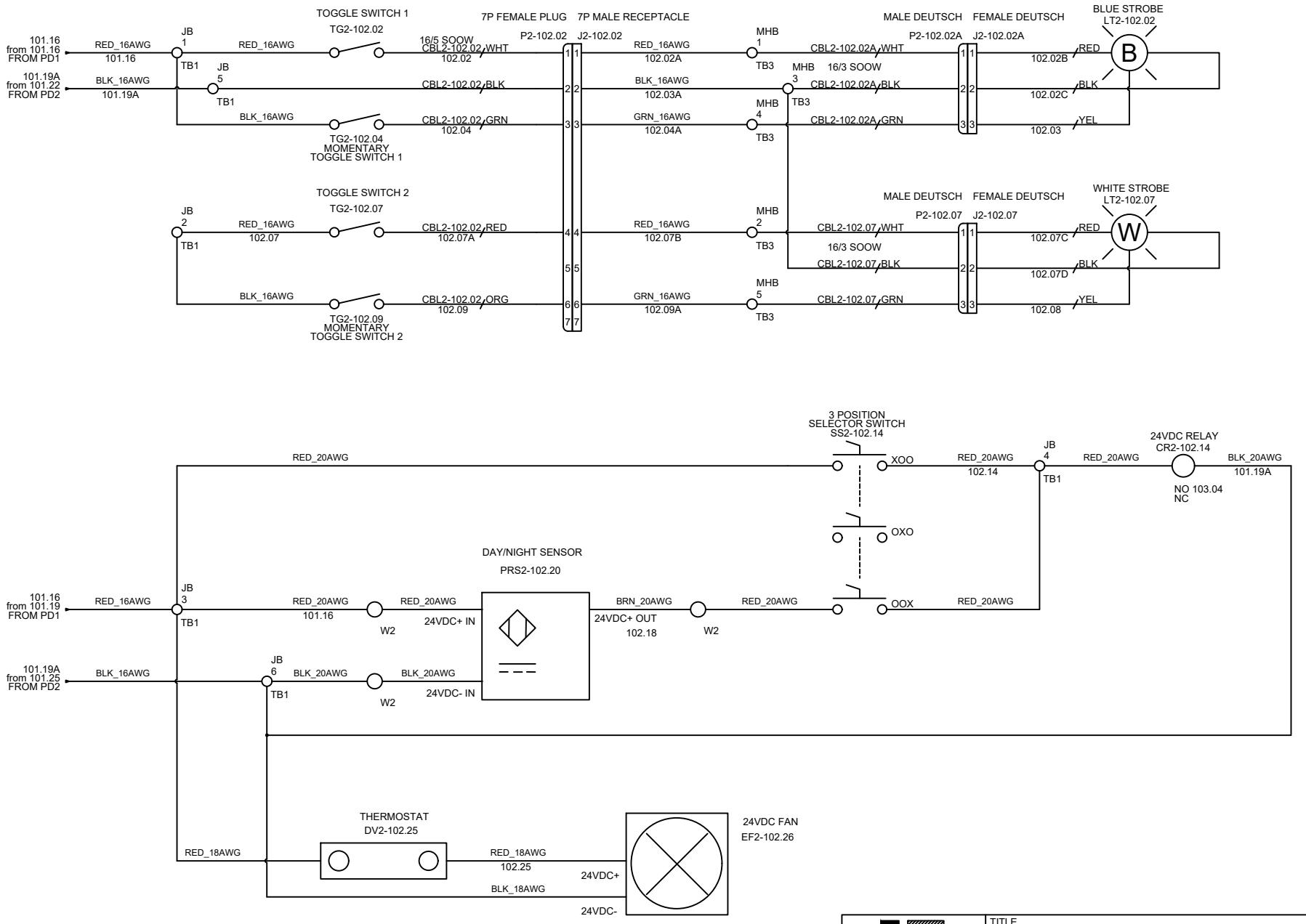
REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	10-01-2025

SPLT-1.06K-LM20-2XWP50-1DM-2TB-ISGG-BC-SL-CAT6

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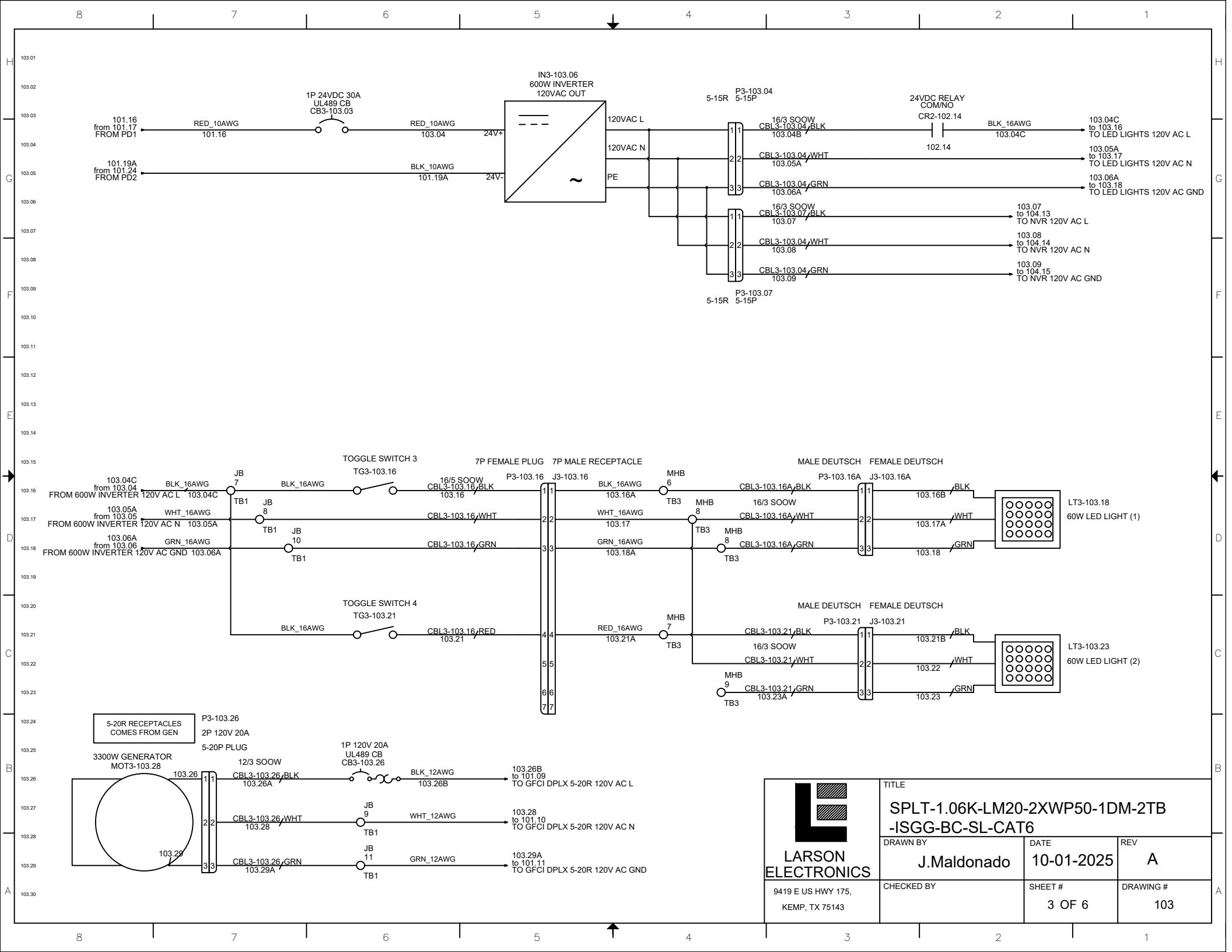

300W SOLAR PANEL
SP1-101.08
300W SOLAR PANEL
SP1-101.08A
300W SOLAR PANEL
SP1-101.08B
300W SOLAR PANEL
SP1-101.08C
SO+
101.08
SO-
101.08A
101.08B
101.08C
101.08D
101.08E
101.08F
101.08G
P1-101.10
J1-101.10
SOLAR PANEL CONNECTOR(M/F)
P1-101.11B
J1-101.11B
P1-101.11C
J1-101.11C
P1-101.11A
J1-101.11A
101.11A
101.11B
101.11C
BLK_10AWG
2P 15A BREAKER 1
CB1-101.14
2P 15A BREAKER 2
CB1-101.14A
101.14
PD4
PD3
101.19A
to 101.27
TO PD2
GFP BREAKER
CB1-101.21
80A BREAKER 2
CB1-101.21A
GRN_10AWG
RED_4AWG
101.21A
SOLAR+
SOLAR-
101.21C
BAT+
BAT-
GND
SC1-101.24
SOLAR CHARGE CONTROLLER
METER
RM21-101.27
CHARGE CONTROL METER
GRN_8AWG
GROUND BAR
CONTROL SWITCH
TG1-101.17
RED_8AWG
PD5
RED_4AWG
RED_6AWG
BLK_6AWG
BAT1-101.19
BAT1-101.19A
BAT1-101.21
BAT1-101.21A
12V BATTERY 250AH
PD1
PD2
BLK_4AWG
50A CONVERTER/CHARGER
PW1-101.11
101.09
RED_8AWG
VOUT+
BLK_8AWG
VOUT-
5-15P
P1-101.09
L
N
BLK
WHT
GRN
101.09A
101.10
101.11
2P 120V 20A
5-20R GFCI DPLX
RECEPTACLE
J1-101.09
BLK_12AWG
103.26B
from 103.26
103.26B FROM GENERATOR 120V AC L
WHT_12AWG
103.28
from 103.28
103.28 FROM GENERATOR 120V AC N
GRN_12AWG
103.29A
from 103.29
103.29A FROM GENERATOR 120V AC GND
RED_16AWG
101.16
to 102.02
TO BEACON LIGHTS 24V DC+
RED_10AWG
to 103.04
TO 600W INVERTER 24V DC+
to 102.18
TO SELECTOR SWITCH AND FAN 24V DC+
to 104.03
TO ROUTER AND FAN 24V DC+
BLK_16AWG
101.19A
to 102.03
TO BEACON LIGHTS 24V DC-
to 103.05
TO 600W INVERTER 24V DC-
to 102.20
TO SELECTOR SWITCH AND FAN 24V DC-
to 104.09
TO ROUTER AND FAN 24V DC-
101.19A
from 101.19
FROM GFP BREAKER
PLEASE NOTE:
GROUND ALL ENCLOSURES
AND DOORS.
LARSON
ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143
TITLE
SPLT-1.06K-LM20-2XWP50-1DM-2TB
-ISGG-BC-SL-CAT6
DRAWN BY
J.Maldonado
DATE
10-01-2025
REV
A
CHECKED BY
SHEET #
1 OF 6
DRAWING #
101



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9419 E US HWY 175,
KEMP, TX 75143

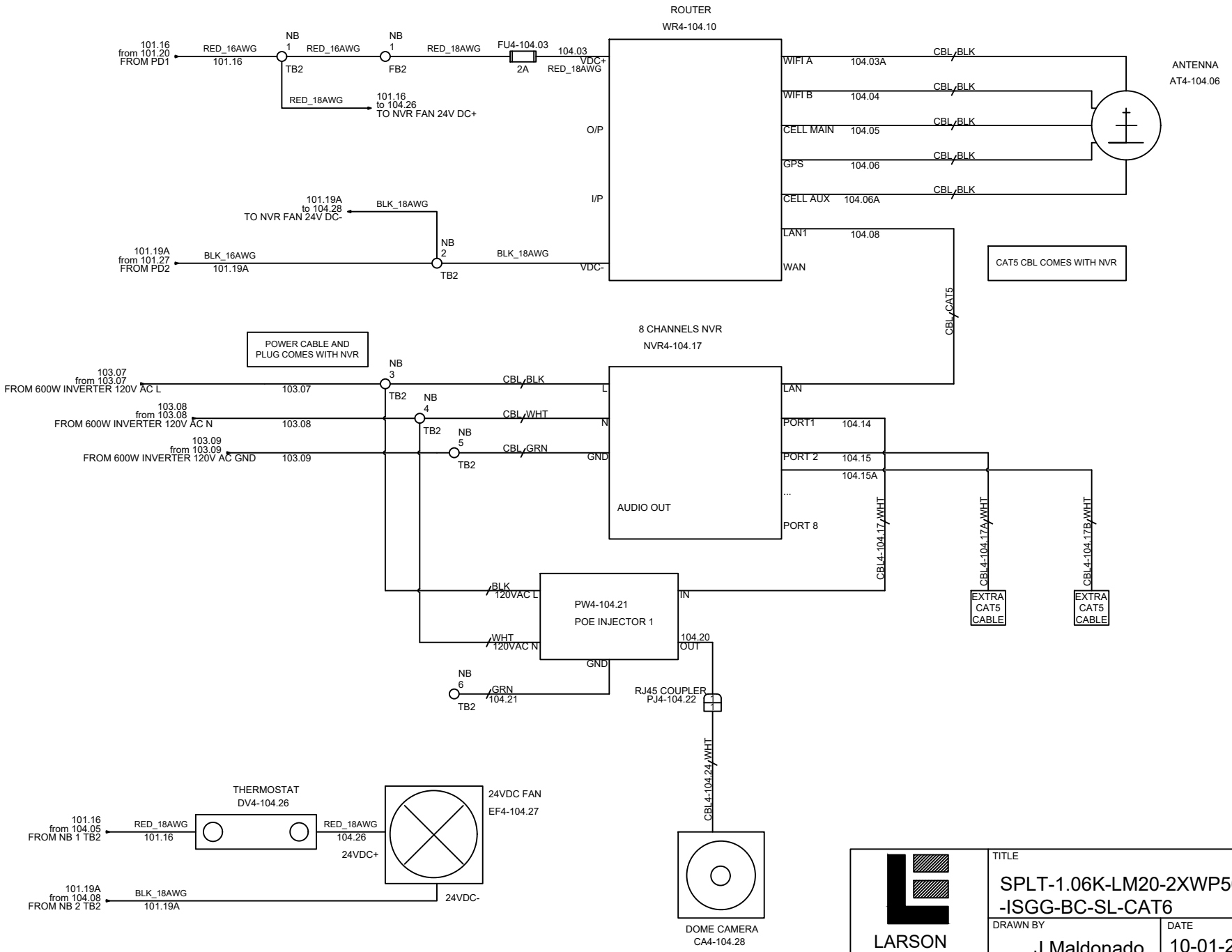
TITLE: SPLT-1.06K-LM20-2XWP50-1DM-2TB -ISGG-BC-SL-CAT6			
DRAWN BY: J.Maldonado	DATE: 10-01-2025	REV: A	
CHECKED BY:	SHEET #: 2 OF 6	DRAWING #: 102	



LARSON ELECTRONICS

9419 E US HWY 175,
KEMP, TX 75143

TITLE			
SPLT-1.06K-LM20-2XWP50-1DM-2TB -ISGG-BC-SL-CAT6			
DRAWN BY	DATE	REV	
J.Maldonado	10-01-2025	A	
CHECKED BY	SHEET #	DRAWING #	
	3 OF 6	103	



LARSON ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143

TITLE			
SPLT-1.06K-LM20-2XWP50-1DM-2TB -ISGG-BC-SL-CAT6			
DRAWN BY	DATE	REV	
J.Maldonado	10-01-2025	A	
CHECKED BY	SHEET #	DRAWING #	
	4 OF 6	104	

TB1 (JOB BOX)									
Device1	Wire1	Type1	Number	Manufacturer	Catalog	Type2	Wire2	Device2	Jumper
PD1	101.16	RED_16AWG	1	PHEONIX CONTACT	UNV0001397 4	RED_16AWG	101.16	TG2-102.02	
TG2-102.04	101.16	BLK_16AWG							
TG2-102.07	102.07	RED_16AWG	2	PHEONIX CONTACT	UNV0001397 4	BLK_16AWG	102.07	TG2-102.09	
TB2	101.16	RED_16AWG	3	PHEONIX CONTACT	UNV0001397 4	RED_20AWG	101.16	SS2-102.14	
W2	101.16	RED_20AWG				RED_18AWG	101.16	DV2-102.25	
SS2-102.14	102.14	RED_20AWG	4	PHEONIX CONTACT	UNV0001397 4	RED_20AWG	102.14	CR2-102.14	
SS2-102.18	102.14	RED_20AWG							
TB1	101.19A	BLK_16AWG	5	PHEONIX CONTACT	UNV0001397 5	BLK_16AWG	101.19A	PD2	
P2-102.02	101.19A	BLK_18AWG							
TB1	101.19A	BLK_16AWG	6	PHEONIX CONTACT	UNV0001397 5	BLK_18AWG	101.19A	EF2-102.26	
CR2-102.14	101.19A	BLK_20AWG				BLK_20AWG	101.19A	W2	
CR2-102.14	103.04C	BLK_16AWG	7	PHEONIX CONTACT	UNV0001397 4	BLK_16AWG	103.04C	TG3-103.16	
TG3-103.21	103.04C	BLK_16AWG							
P3-103.04	103.05A	WHT_16AWG	8	PHEONIX CONTACT	UNV0001397 5	WHT_16AWG	103.05A	P3-103.16	
J1-101.09	103.28	WHT_12AWG	9	PHEONIX CONTACT	UNV0001397 5	WHT_12AWG	103.28	P3-103.26	
P3-103.04	103.06A	GRN_16AWG	10	PHEONIX CONTACT	UNV0001398 9	GRN_16AWG	103.06A	P3-103.16	
J1-101.09	103.29A	GRN_12AWG	11	PHEONIX CONTACT	UNV0001398 9	GRN_12AWG	103.29A	P3-103.26	

TB2 (NVR BOX)									
Device1	Wire1	Type1	Number	Manufacturer	Catalog	Type2	Wire2	Device2	Jumper
TB1	101.16	RED_16AWG	1	PHEONIX CONTACT	UNV0001397 4	RED_16AWG	101.16	PD1	
FB2	101.16	RED_18AWG				RED_18AWG	101.16	DV4-104.26	
IN3-103.06	101.19A	BLK_10AWG	2	PHEONIX CONTACT	UNV0001397 5	BLK_16AWG	101.19A	PD2	
	101.19A	BLK_18AWG				BLK_16AWG	101.19A	WR4-104.10	
P3-103.07	103.07	BLK_16AWG	3	PHEONIX CONTACT	UNV0001397 4	BLK_16AWG	103.07	NVR4-104.17	
PW4-104.21	103.07	BLK_16AWG							
P3-103.07	103.08	WHT_16AWG	4	PHEONIX CONTACT	UNV0001397 5	WHT_16AWG	103.08	NVR4-104.17	
PW4-104.21	103.08	WHT_16AWG							
P3-103.07	103.09	GRN_16AWG	5	PHEONIX CONTACT	UNV0001398 9	GRN_16AWG	103.09	NVR4-104.17	
PW4-104.21	104.21	GRN_18AWG	6	PHEONIX CONTACT	UNV0001398 9				

TB3 (MAST HEAD BOX)									
Device1	Wire1	Type1	Number	Manufacturer	Catalog	Type2	Wire2	Device2	Jumper
J2-102.02	102.02A	RED_16AWG	1	PHEONIX CONTACT	UNV0001397 4	WHT_16AWG	102.02A	P2-102.02A	
J2-102.02	102.07B	RED_16AWG	2	PHEONIX CONTACT	UNV0001397 4	WHT_16AWG	102.07B	P2-102.07	
J2-102.02	102.03A	BLK_16AWG	3	PHEONIX CONTACT	UNV0001397 5	BLK_16AWG	102.03A	P2-102.02A	
P2-102.07	102.03A	BLK_16AWG							
J2-102.02	102.04A	GRN_16AWG	4	PHEONIX CONTACT	UNV0001397 5	GRN_16AWG	102.04A	P2-102.02A	
J2-102.02	102.09A	GRN_16AWG	5	PHEONIX CONTACT	UNV0001397 5	GRN_16AWG	102.09A	P2-102.07	
J3-103.16	103.16A	BLK_16AWG	6	PHEONIX CONTACT	UNV0001397 4	BLK_16AWG	103.16A	P3-103.16A	
J3-103.16	103.21A	RED_16AWG	7	PHEONIX CONTACT	UNV0001397 4	BLK_16AWG	103.21A	P3-103.21	
J3-103.16	103.17	WHT_16AWG	8	PHEONIX CONTACT	UNV0001397 5	WHT_16AWG	103.17	P3-103.16A	
P3-103.21	103.17	WHT_16AWG							
J3-103.16	103.18A	GRN_16AWG	8	PHEONIX CONTACT	UNV0001398 9	GRN_16AWG	103.18A	P3-103.16A	
P3-103.21	103.23A	GRN_16AWG	9	PHEONIX CONTACT	UNV0001398 9				

LARSON ELECTRONICS

9419 E US HWY 175,
KEMP, TX 75143

TITLE: SPLT-1.06K-LM20-2XWP50-1DM-2TB -ISGG-BC-SL-CAT6

DRAWN BY	DATE	REV
J.Maldonado	10-01-2025	A
CHECKED BY	SHEET #	DRAWING #
	5 OF 6	105

TAGS	QTY	CATALOG	DESCRIPTION
BAT1-101.19 BAT1-101.19A BAT1-101.21 BAT1-101.21A	4	UNV00018770	12V 250AH RECHARGEABLE AGM SEALED LEAD ACID BATTERY
P2-102.02 P3-103.16	2	UNV00002324	7 Position Circular Connector Plug, Female Sockets Solder Cup
J2-102.02 J3-103.16	2	UNV00002338	7 Position Circular Connector Receptacle, Male Pins Solder Cup
J2-102.02A J2-102.07 J3-103.16A J3-103.21	4	UNV00005477	DT 3WAY RECEPTACLE
P2-102.02A P2-102.07 P3-103.16A P3-103.21	4	UNV00005481	DT 3WAY PLUG
J1-101.09	1	UNV00014533	5-20R 2P 3W 20A 125V GFCI DPLX RECEPTACLE
J1-101.11B J1-101.11C P1-101.10 P1-101.10A P1-101.11 P1-101.11A	6	UNV00001349	SOLAR PANEL CONNECTOR -MALE
PJ4-104.22	1	UNV00014913	RJ45 Waterproof Connector IP67 Ethernet Network Cable Connector DoubleHead Outdoor LAN Coupler Adapter Female Cat5 6 7 8P8C
P3-103.26	1	UNV00005944	120V 20A 5-20P STRAIGHT BLADE
J1-101.10 J1-101.10A J1-101.11 J1-101.11A P1-101.11B P1-101.11C	6	UNV00001350	SOLAR PANEL CONNECTOR- FEMALE
CB1-101.21A	1	UNV00018054	Circuit Breaker 80A 48VDC IP67
CB1-101.14 CB1-101.14A	2		2P 240V 15A UL489 10KAIC DIN RAIL MOUNTED CIRCUIT BREAKER
CB3-103.03	1	UNV00015146	1P 30A 120/240V 10KAIC DIN RAIL MOUNT BREAKER
CB3-103.26	1	UNV00017491	1P 120V/240V 20A 10KAIC UL489 DIN RAIL MOUNT CIRCUIT BREAKER
CB1-101.21	1	MNDC-GFP63	63 Amp 150VDC 10KAIC Din Rail Mount DC Ground Fault Protector
CR2-102.14	1	UNV00021369	POWER RELAY, TYPE RPF, COIL 24VDC, 2 FORM C , SWITCH CAPACITY MIN. 100mA, MAX. 7200VA
CA4-104.28	1		8MP 100' IR Zoom WDR IP Outdoor Dome Security Camera
NVR4-104.17	1	UNV00015839	8CH NVR 8 PORT POE, 80 MBPS NDAA
EF2-102.26	1	UNV00011964	12" 24V Reversible Electric Fan
RM21-101.27	1	UNV00001332	DIGITAL CHARGE CONTROL METER
EF4-104.27	1		24V DC Axial Fan, 120x120x25mm 120CFM, 7.7W, 0.32A, 42dBA, Ball, Wire, IP68
WR4-104.10	1	UNV00015581	CELLULAR ROUTER - CAT 6 LTE MODEM
AT4-104.06	1	UNV00015562	5 IN 1 ANTENNA - GPS - 2XLTE - 2XWI-FI
SP1-101.08 SP1-101.08A SP1-101.08B SP1-101.08C	4	UNV00005453	300W Solar Panel
SC1-101.24	1	UNV00006003	SOLAR CHARGE CONTROLLER 60 AMP UP TO 150 VDC INPUT, 12-48 VOLTS. 12V-800 WATTS
DV2-102.25 DV4-104.26	2	UNV00009886	10A 120V VENTAMATIC REPLACEMENT THERMOSTAT
IN3-103.06	1	RBP60024B1	Pure Sine Wave Inverter 600Watt 24V DC to 120V AC Power Converter 1200W Surge
FU4-104.03	1	UNV00013992	Fuse, AGC series, small dimension, fast-acting, 2A, 250 VAC, glass tube
LT3-103.18 LT3-103.23	2	UNV00008125	60W COB WALL PACK -120-277 5600K BRONZE SHELL W/PLASTIC SHIELD
LT2-102.07	1	UNV00006545	12/24V LED BEACON LIGHT- WHT
LT2-102.02	1	UNV00006539	12/24V BLUE BEACON LED STROBE
MOT3-103.28	1	UNV00003116	4000-Watt 7-Hp Air Cooled OHV Gas Engine Portable RV Generator
PRS2-102.20	1	UNV00006500	Low Voltage Stem Mount Photocontrols - 24V DC
PW1-101.11	1	UNV00014438	50A 24V Charger with Built in 3-Stage Smart Charging and Single Output Modes
PW4-104.21	1	UNV00014987	Power Over Ethernet Plus Injector, Converts Non-Poe Gigabit to Poe+ or Poe Gigabit, Network Distances Up to 100 M
SS2-102.14	1		Selector switch, 30mm, 3-position, maintained, (1) N.O./(1) N.C. contact(s), plastic base, metal bezel, Operator: black, lever, 35mm
TG2-102.04 TG2-102.09	2	N/A	MOMENTARY TOGGLE SWITCH

TAGS	QTY	CATALOG	DESCRIPTION
TG2-102.02 TG2-102.07 TG3-103.16 TG3-103.21	4	UNV00014856	TOGGLE SWITCH 10A
TG1-101.17	1	UNV00014267	300A CONTROL/DISCONNECT SWITCH
P3-103.04 P3-103.07	2	UNV00006731	Plug, Straight Blade, 15A, 125V NEMA 5-15P
PD2	1	UNV00015085	POWER DISRIBUTION BLOCK 2-12 OPENING 570A
PD1 PD5	2	UNV00016633	POWER DISTRIBUTION BLOCK 380A 1-6 OPENING
PD3 PD4	2	UNV00015084	POWER DISTRIBUTION BLOCK 175A 600V 1-4 OPENING
FB2	1	UNV00013991	Fuse Terminal Block, accepts wire size 20-6 AWG, gray, 30A, 600V rated (UL), 35mm DIN rail mount
TB1 TB2 TB3	11	UNV00013974	FEED THROUGH 4 TERMINAL BLOCK-GREY-SCREWLESS
TB1 TB2 TB3	10	UNV00013975	FEED THROUGH 4 TERMINAL BLOCK-BLUE-SCREWLESS
TB1 TB2 TB3	6	UNV00013989	FEED THROUGH 2 POINT TERMINAL BLOCK-GREEN SCREWLESS
GROUND BAR	1	UNV00013942C	GROUND BAR KIT 14 AWG TO 4 AWG
W2	2	UNV00009802	2 HOLE WAGO
CBL2-102.02 CBL3-103.16	2	UNV00002853	16/7 SOOW CABLE
CBL4-104.17 CBL4-104.17A CBL4-104.17B CBL4-104.24	4		CAT5 CABLE
CBL3-103.26	1	UNV00002908	12/3 SOOW CABLE
CBL2-102.02A CBL2-102.07 CBL3-103.04 CBL3-103.07 CBL3-103.16A CBL3-103.21	6	UNV00007524	16/3 SOOW CABLE

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DRAWN BY	DATE	REV
J.Maldonado	10-01-2025	A
CHECKED BY	SHEET #	DRAWING #
	6 OF 6	106