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SPLT-V2-1.06K-LM30-4X90LTL-ISDG-AT.DNS-BCC-TLR14

1060 Watt Solar Tower - 30' Mast - (4) 100W Lamps - Backup Diesel Genset - Timer & Dusk/Dawn

Product ID: 152572



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

SPLT-V2-1.06K-LM30-4X90LTL-ISDG-AT.DNS-BCC-TLR14 Trailer Mounted 3-Stage Light Tower

Light Mast Specs
Tower Length: 10.8` to 32.9`
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) 1,000lbs Hand Winch
Cable: 3/16" Galvanized Aircraft Cable

Solar Specs
Panels: (4) 265 Watt panels
Method of Deployment: Fixed Mount, 45° Angle
System Voltage: 12 Volts stepped up to 120V
Battery Bank: (2) 12V 250aH 8D batteries
Battery Capacity: 500aH Total / 250aH Usable
Rapid Battery Charger: 20A 120V 60 Hz w/ 50` Power Cord
Protection: Circuit Breakers (Charge Controller/Batteries)

LED Lamp Specs
Lamp Type: CREE LED
Total Watts: 360W (90W per lamp)
Total Lumens: 54,000 (13,500 per lamp)
Luminous Efficacy: 135 lm/w
LED Life Expectancy: 80,000+ hours
Color Temp: 6500, 5000K, 4000K or 3000K
Beam Angle: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood
Optics Efficiency: 98% - PMMA High Transmittance Optics
LED Drive: 90%

Quick Summary

Fully Solar, No Fuel Needed
Steel Construction
Power Coated Finish
Removable Mast Head
(4) 1,000lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
A-Frame for mounted (4) 265 Watt Solar Panels
N3R Weatherproof Job Box w/ (2) Locks
Waterproof/Vapor Proof Lamps
80,000+ Hour LED Life
IP67 Waterproof Lamps
70% Lumen Retention after 80,000 Hours

Ambient Temp Range: -40°C to +80°C
Lamp Housing Material: Cast Aluminum
Lamp Lens Material: Polycarbonate
Lamp Settings: Automatic, Timed Interval, Manual (via 3-way Switch)

Generator Specs
Dimensions: 26" x 22.4" x 28.4"
Weight: 224 lbs
Engine: OHV
Rated Power: 3,000W output, 5,000W peak
Fuel Capacity: 3.9 gallons
Starting System: Recoil & Electric

Trailer Specs
Materials: Steel
Trailer Dimensions: 146.04"-L` x 98"-W trailer bed- 14` Total Length
Features: 4-corner D-rings, Forklift Skid Pockets
Hitch: 3" Pintle Hitch or 2" Ball Pintle Hitch
Wiring: 7-Pin Flat
Axle: 3,500lb
Suspension: 3,500 Lb 4-Leaf Double Eye Springs
Outriggers: (4) 1,000 Manual Crack Leveling Jacks
Wheels: (2) 15" 5x4.5 Steel Rims
Tires: ST205/75/D15 H188

Shipping Specs
Weight: 2,850 Lbs
Shipping: Common Freight
Shipping Dimensions: 8`-L x 8`-W x 12`-H
Shipping Weight: +/-3000 lbs
Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

Made in the USA
The Larson Electronics SPLT-V2-1.06K-LM30-4X90LTL-ISDG-AT.DNS-BCC-TLR14 solar powered LED light tower provides a safe and effective way for operators to quickly deploy 360 watts of intense LED illumination to elevations up to thirty feet. This solar light plant features a telescoping light tower that folds over for easy transportation, a rotating boom that allows for 360° of rotation, a backup generator to help charge the batteries when sunlight is unavailable and a removable mast head for storing the two LED light fixtures when not in use. This unit features four, 265-watt solar panels and a 500 amp capacity battery bank. The entire assembly is mounted onto a 7` single axle trailer, which measures 14` in length, allowing operators to transport this solar light tower from location to location.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS
Solar Powered Light Tower: This solar light tower includes four solar panels, solar charging system, battery bank, rapid battery charger, weatherproof NEMA 3R job box, a backup generator and manual crank up mast mounted on trailer with outriggers. This 1.06 KW solar generator system replenishes 700 amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This system delivers 120 volts for an LED lighting system consisting of four, LED fixtures mounted atop the 30` telescoping light mast.
Light Mast: This telescoping five stage steel light mast from Larson Electronics' is designed to allow operators to quickly and safely deploy the two LED light heads in locations where this equipment must be elevated to heights up to 30` for effective coverage. This light boom can be extended to 30` above the trailer floor for maximum area coverage, and collapsed to 13.5` for applications where a footprint smaller is required. The tower is constructed of square steel tubing with a base section 6.6` in length and 6" by 6" by 3/16" thick, lower section 6.78` in length and 5" by 5" by 3/16" thick, middle section 6.93` in length and 4" by 4" by 1/8" thick, upper section 7.08` in length and 3" by 3" by 1/8" thick, and top section 7.58` in length and 2" by 2" by 1/8"

thick. Each section has a 1`+ overlap. The mast is extended to its full height using an included 1,000lb rated hand winch with 3/16" galvanized steel cable.
A 44" wide and 2" by 2" by 1/4" thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for the equipped LED light fixtures. When elevated to its full upright position, the mast can be rotated a full 360°. By loosening the T-Handle, operators can rotate the mast with easy in either direction. The mast can be positioned in one of four different positions, and locked back in place by re-tightening the T-handle. The mast itself spins freely with easy, and can typically be rotated with a single hand. The LM series of towers are powder coated with glossy blue finish for corrosion resistances and aesthetics.
The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. Four 1,000 lbs hand crank leveling jacks are used for leveling. The jacks can be leveled by hand crank or attachment provided for power drills. These outriggers can be extended 2` out from the side of the trailer for added stability. When lowered to 13.5`, the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.



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LED Light Fixtures: This solar light plant is equipped with four of Larson Electronics` GAU-LTL-90W-LED high output LED light fixtures. The LED lamps each produce 13,500 lumens of high intensity light while drawing only 100 watts at 0.84 amps from a 120 volt electrical system. Nine CREE® high output LEDs producing 1,500 lumens each are arranged in rows and paired with PMMA high purity optics to produce a well focused 24° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spots lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights. The LED lamp assembly is protected by a shatterproof polycarbonate lens.
As well as unparalleled heat control, the GAU-LTL-90W-LED series of LED lights from Larson Electronics also offer IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. The CREE® LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,0000 hours of use. We recommend these LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.
Each LED unit is equipped with a back mount trunnion style mounting bracket that allows the light to be adjusted through 160° of vertical movement. To adjust the LED lamps, the user simply loosens the set screws located on either side of the unit, moves it into the desired position, then re-tightens the screws.

LED Technology: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.
Lamp Control: The LED lamps feature three settings for versatile operation, which is faciliated by a 3-way switch (automatic, timed interval and manual). Automatic operation is faciliated by a day/night (dusk to dawn) sensor, only turning the fixtures on when ambient light levels reach below 5 lux. Timed interval operation allows operators to set a timed schedule for the lamps. Manual operation includes standard on/off switch for manual override.



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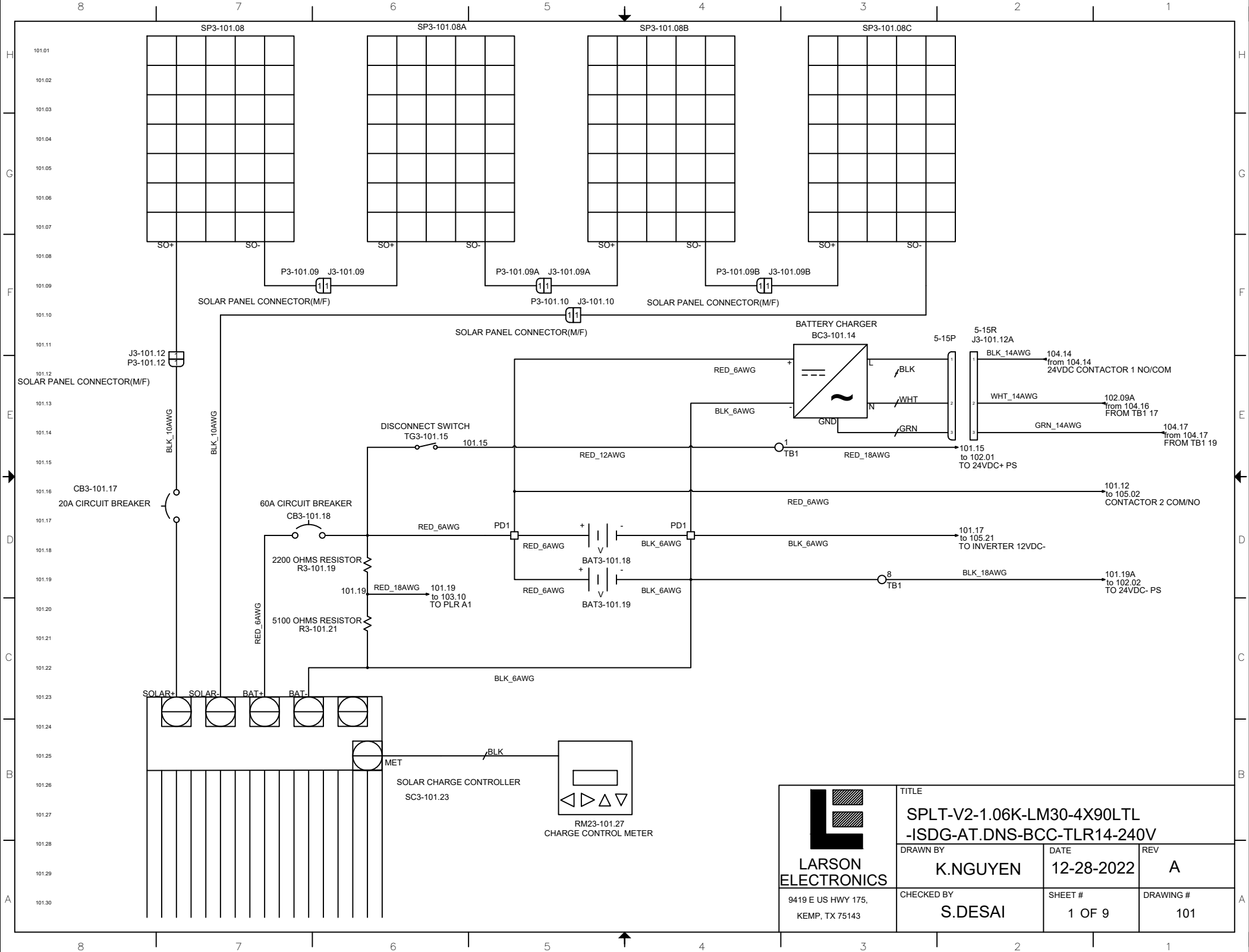
Solar Panel Assembly: This unit is comprised of four 265-watt solar panels, generating a total maximum output of 1.06 KW. The panels are mounted to a stationary assembly. The panels are wired to the solar charger control box which manages the charging system. The four solar panels are mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake.
A 20-amp, 120V 60 Hz rapid battery charger can be used to charge the batteries. For reaching power sources during charging, the system comes with a 50-foot power cord. Circuit breakers protect the charger controller and batteries from overcharging.
Component Control Center: All the electrical components are encapsulated in a NEMA 3R job box that is bolted to the trailer. The weatherproof enclosure features two lockable locations at both sides, which deters tampering. Since most of these components are not rated for high heat, our component cooling system circulates air within the job box at 1400 CFM when the ambient temperature exceeds 90 degrees Fahrenheit. The job box that contains the component control system includes locks for security purposes.
Backup Generator: This light mast features a 5000 watt backup diesel generator. This generator is powered by a 4-stroke OHV single cylinder engine with a forced air cooling system that runs on diesel fuel, and is started by pulling the recoil starter, or with the push of a button using the key less electric start. This genset will automatically kick on whenever the voltage of the battery system falls below 12V. This is useful for times when sunlight is not readily available.
Trailer Assembly: The entire assembly is mounted to a 7.5` by 7`, single axle trailer via six 1/2" anchor bolts. The two-wheel trailer measures 14` in length and is equipped with 3,500 lbs axle and leaf springs with 15" trailer tires. For seamless transportation, the trailer features 4-corner D-rings (suitable for crane lifting and securing the unit) and forklift skid pockets (suitable for heavy-duty lifting machines). Two standard safety chains, and 7-pin flat trailer plug allow for easy hookup and towing. Hitch options include: 3" pintle hitch or 2" ball hitch. The trailer tongue can be removed for long term deployment. A rugged and waterproof job box is included, safely secured to the trailer. Four outriggers mounted to the corners of the trailer allow operators to level the trailer, and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.
Applications: Remote locations, outdoor illumination, temporary work sites, construction, security checkpoints, agricultural sites, emergency camps, military, concerts, stadiums and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	12/22/2022

SPLT-V2-1.06K-LM30-4X90LTL-ISDG-AT.DNS-BCC-TLR14-240V

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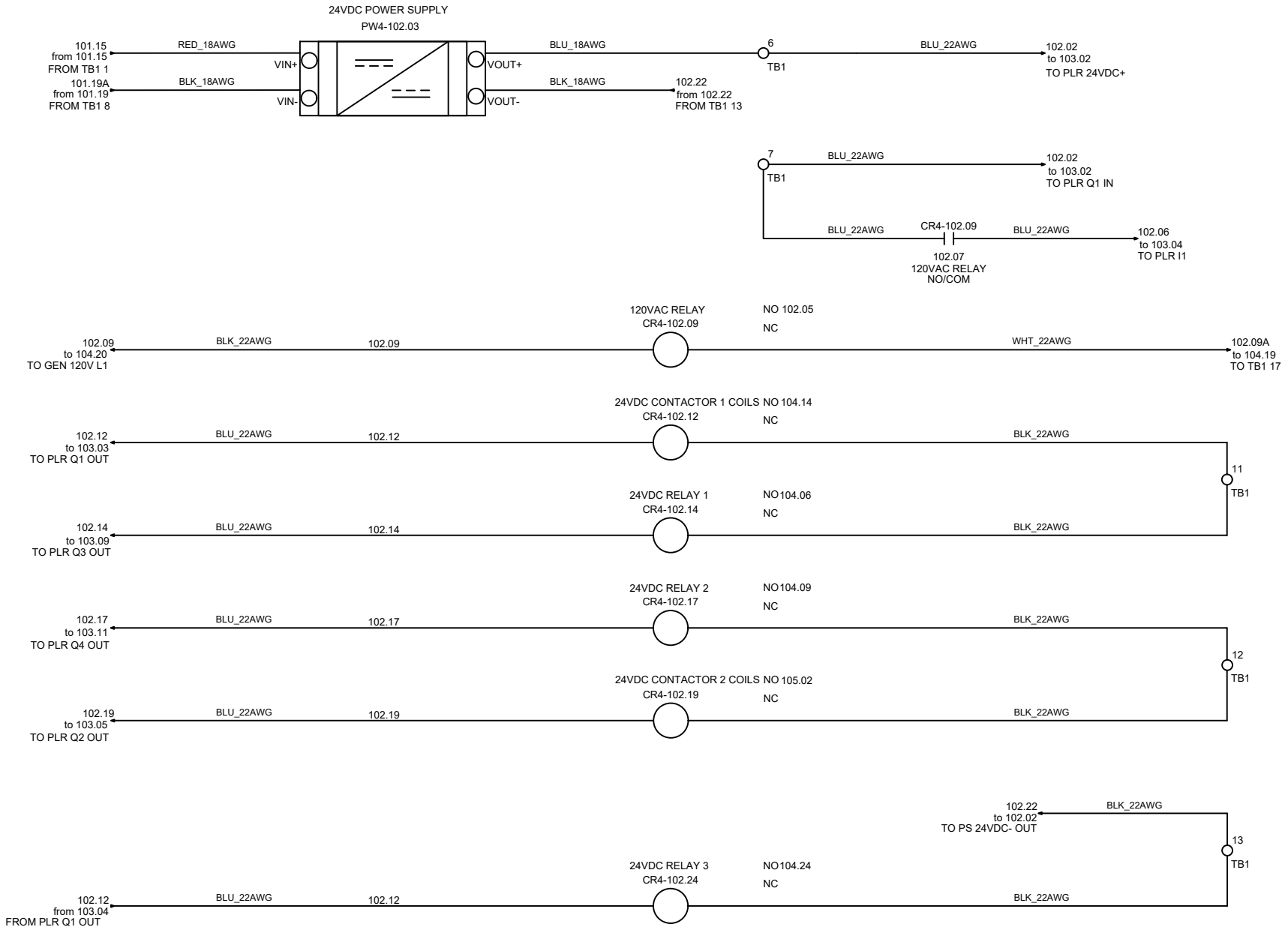
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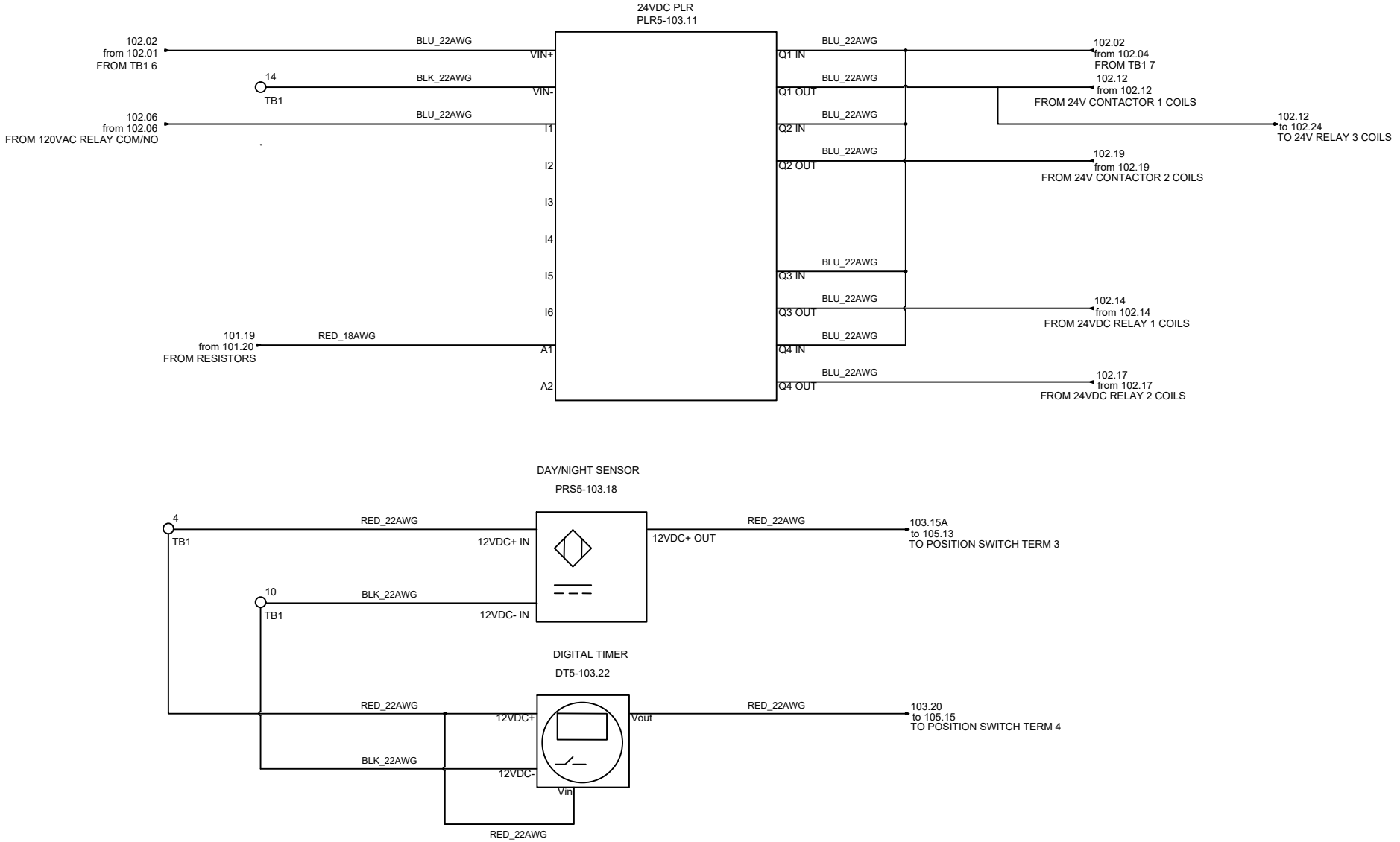
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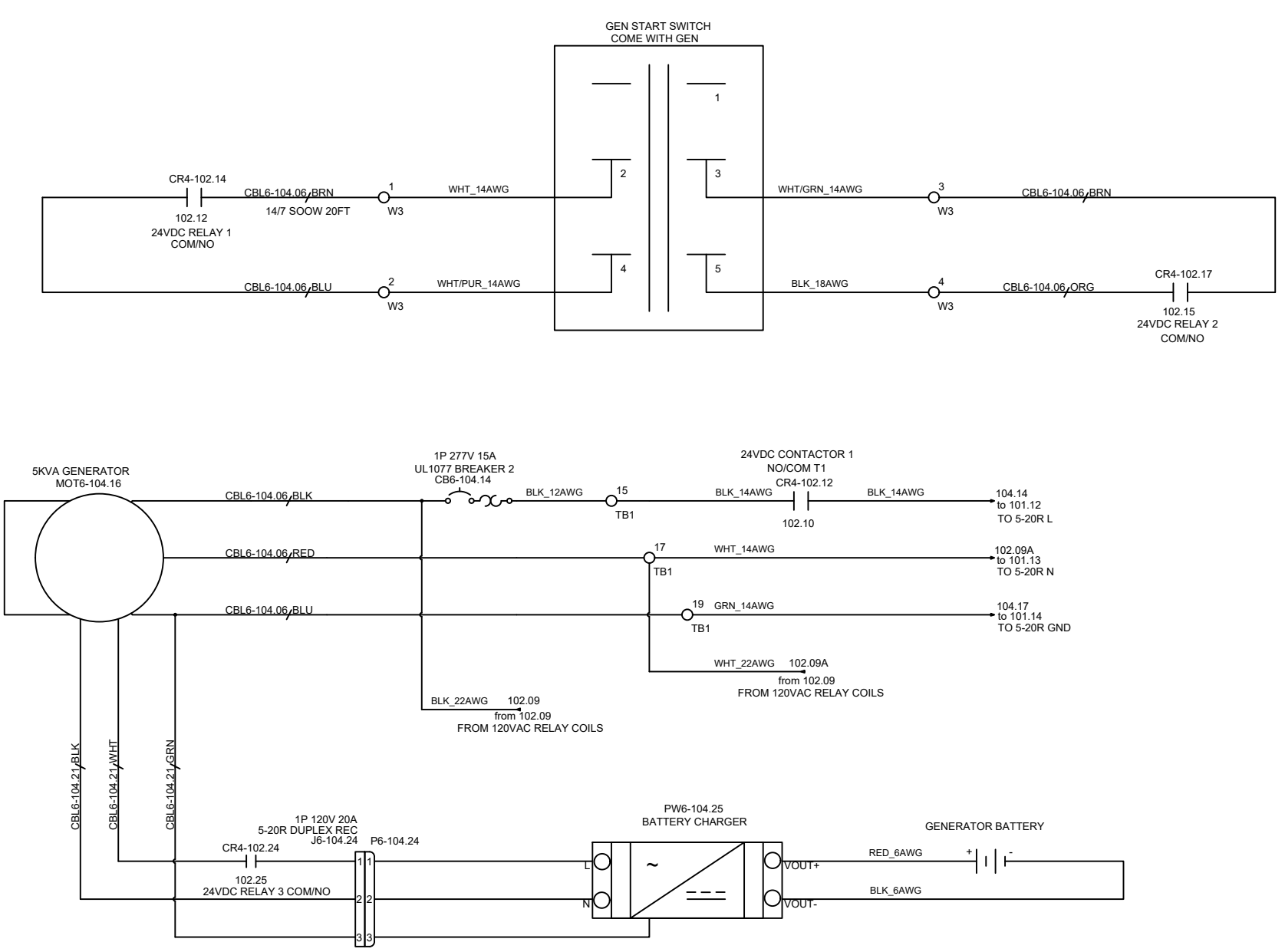
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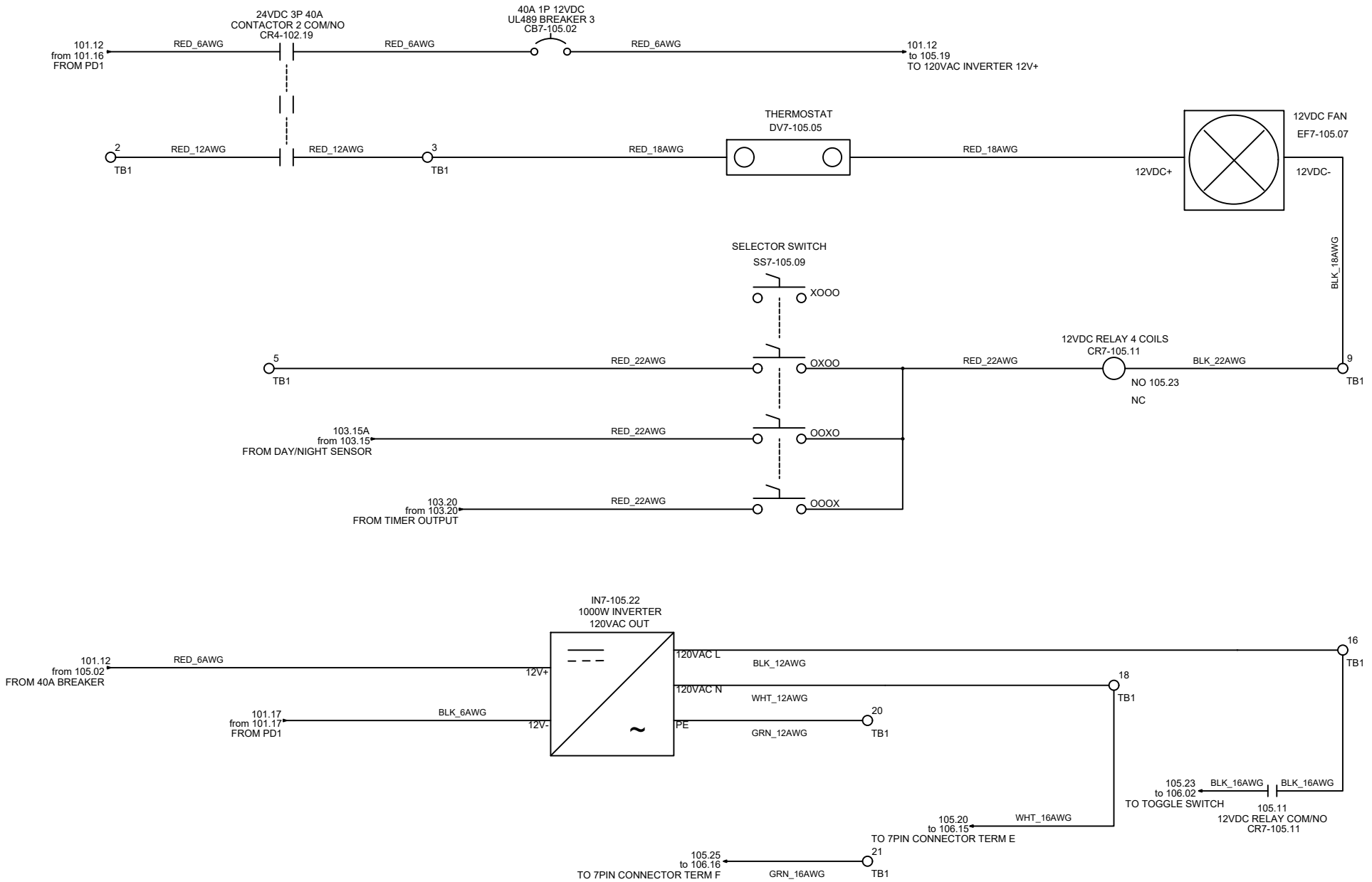
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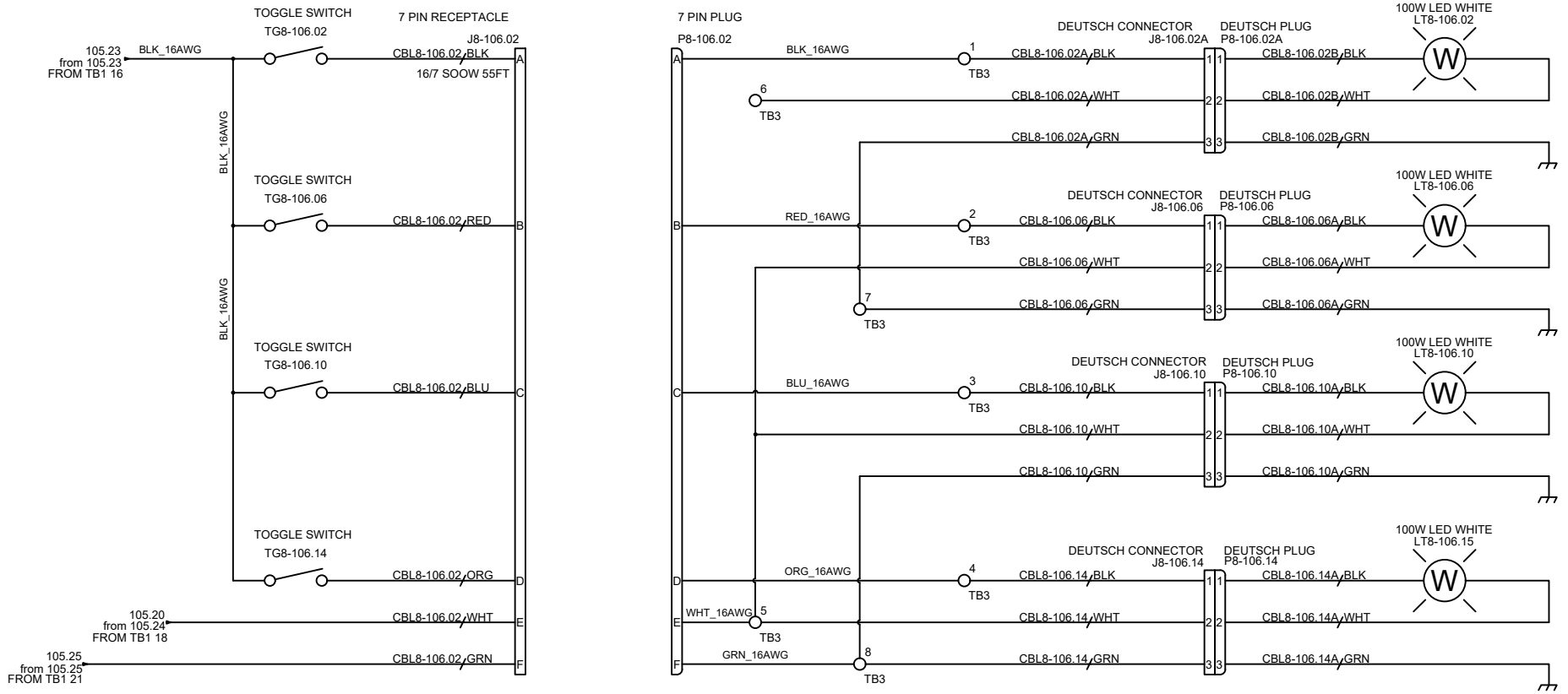
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	DRAWN BY: K.NGUYEN	DATE: 12-28-2022	REV: A
	CHECKED BY: S.DESAI	SHEET #: 6 OF 9	DRAWING #: 106

TB1													
Device1	Pin1	Wire1	Type1	T1	Number	Location	Manufacturer	Catalog	Type2	Wire2	Pin2	Device2	Jumper
TG1-101.15			RED_12AWG		1	1	PHOENIX CONTACT	UNV00013971	RED_18AWG				
CR			RED_12AWG		2	5	PHOENIX CONTACT	UNV00013974					
CR			RED_12AWG		3	5	PHOENIX CONTACT	UNV00013974	RED_12AWG			DV7-105.05	
PRS5-103.18	12VDC+ IN		RED_20AWG		4	3	PHOENIX CONTACT	UNV00013971	RED_20AWG		12VDC+	DT5-103.22	
			RED_20AWG		5	5	PHOENIX CONTACT	UNV00013971					
			BLU_20AWG		6	2	PHOENIX CONTACT	UNV00013974	BLU_20AWG		VIN+	PLR5-103.15	
PLR5-103.15	Q1 IN		BLU_20AWG		7	2	PHOENIX CONTACT	UNV00013974	BLU_20AWG			CR4-102.07	
R1-101.21			BLK_6AWG		8	1	PHOENIX CONTACT	UNV00013970	BLK_6AWG		-	BAT1-101.19	
			BLK_18AWG										
			BLK_18AWG		9	5	PHOENIX CONTACT	UNV00013975	BLK_20AWG			CR7-105.11	
PRS5-103.18	12VDC+ OUT		BLK_20AWG		10	3	PHOENIX CONTACT	UNV00013970	BLK_20AWG		12VDC-	DT5-103.22	
CR4-102.09			BLK_20AWG		11	2	PHOENIX CONTACT	UNV00013975	BLK_20AWG			CR4-102.12	
CR4-102.14			BLK_20AWG		12	2	PHOENIX CONTACT	UNV00013975	BLK_20AWG			CR4-102.17	
			BLK_18AWG		13	2	PHOENIX CONTACT	UNV00013975	WIRES			CR4-102.24	
PLR5-103.15	VIN-		WIRES		14	3	PHOENIX CONTACT	UNV00013975					
CB6-104.14			BLK_12AWG		15	4	PHOENIX CONTACT	UNV00013974	BLK_14AWG			CR4-102.09	
IN7-105.22	120VAC L		BLK_12AWG		16	5	PHOENIX CONTACT	UNV00013974	BLK_16AWG			CR7-105.11	
CR4-102.07		102.07A	WHT_20AWG		17	4	PHOENIX CONTACT	UNV00013975	WHT_12AWG			MOT6-104.16	
			WHT_14AWG										
IN7-105.22	120VAC N		WHT_12AWG		18	5	PHOENIX CONTACT	UNV00013974	WIRES		E	J8-106.02	
J6-104.24	3		WIRES		19	4	PHOENIX CONTACT	UNV00013989	GRN_12AWG			MOT6-104.16	
			GRN_14AWG										
IN7-105.22	PE		GRN_12AWG		20	5	PHOENIX CONTACT	UNV00013989					
J8-106.02	F		WIRES		21	5	PHOENIX CONTACT	UNV00013989					

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TB3													
Device1	Pin1	Wire1	Type1	T1	Number	Location	Manufacturer	Catalog	Type2	Wire2	Pin2	Device2	Jumper
P8-106.02	A		BLK_16AWG		1	6	PHOENIX CONTACT	UNV0001397 4	BLK_6AWG		1	J8-106.02A	
P8-106.02	B		RED_16AWG		2	6	PHOENIX CONTACT	UNV0001397 4	BLK_6AWG		1	J8-106.06	
P8-106.02	C		BLU_16AWG		3	6	PHOENIX CONTACT	UNV0001397 4	BLK_6AWG		1	J8-106.10	
P8-106.02	D		BLK_16AWG		4	6	PHOENIX CONTACT	UNV0001397 4	BLK_6AWG		1	J8-106.14	
J8-106.10	2		WHT_16AWG		5	6	PHOENIX CONTACT	UNV0001397 5	WHT_16AWG		E	P8-106.02	
J8-106.14	2		WHT_16AWG										
J8-106.02A	2		WHT_16AWG		6	6	PHOENIX CONTACT	UNV0001397 5					
J8-106.02A	3		BLK_6AWG		7	6	PHOENIX CONTACT	UNV0001398 9	BLK_6AWG		3	J8-106.06	
J8-106.10	3		BLK_6AWG		8	6	PHOENIX CONTACT	UNV0001398 9	GRN_16AWG		F	P8-106.02	
J8-106.14	3		BLK_6AWG										

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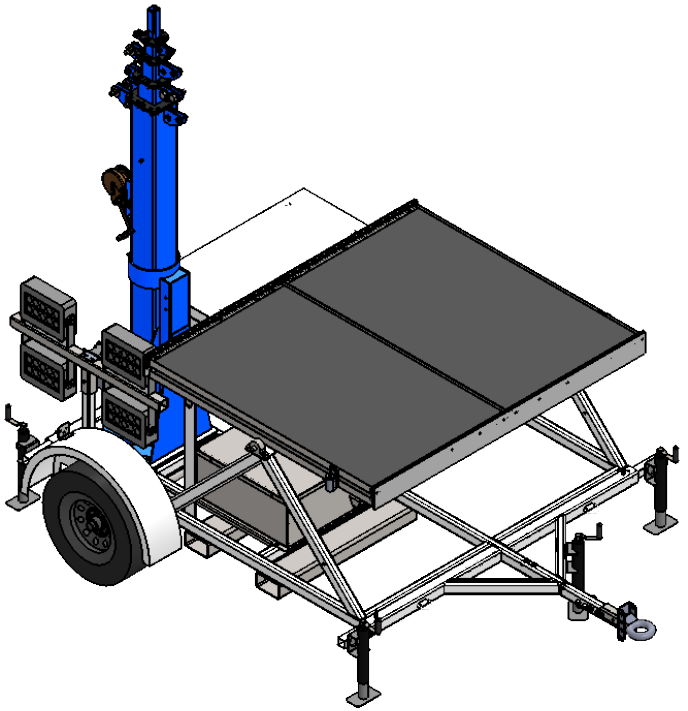
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BAT3-101.18 BAT3-101.19	2	UNV00009854	80 BATTERIES 12V 250AH
J8-106.02	1	UNV00002324	7 PIN CONNECTOR- RECEPTACLE
P8-106.02	1	UNV00002338	7 PIN CONNECTOR PLUG
J6-104.24	1	UNV00014533	5-20R GFCI 125/250V 20A
P3-101.09 P3-101.09A P3-101.09B P3-101.10 P3-101.12	5	UNV00001349	SOLAR CONNECTOR MALE
J3-101.09 J3-101.09A J3-101.09B J3-101.10 J3-101.12	5	UNV00001350	SOLAR CONNECTOR FEMALE
J3-101.12A	1	UNV00012694	20A 120V DUPLEX RECEPTACLE
CB3-101.17	1	UNV00001347	CIRCUIT BREAKER, 20A 150VDC, 1-POLE, DIN MOUNT,
CB3-101.18	1	UNV00001791	60AMP 12-48VDC BREAKER
CB6-104.14	1	UNV00015143	15A 1P 277 UL 1077 BREAKER
CB7-105.02	1	UNV00018427	UL489 1P 120/240V 40A DINRAIL CIRCUIT
CR4-102.19	1	UNV00016564	24VDC COILS CONTACTOR 3P 40A
CR4-102.14 CR4-102.17 CR4-102.24	3	UNV00013952	General Purpose Relays 24VDC FLNGMT DPST-NO RoHS Compliant
CR4-102.09	1	UNV00018363	120V COILS RELAY 30A DPST DIN RAIL MOUNT
CR7-105.11	1	RPF2BJD	12VDC @ COILS 30A DPDT RELAY
CR4-102.12	1	WDP30-1L-24	24VAC @ COILS CONTACTOR 32A SHUNT TRIP
EF7-105.07	1	UNV00015879	12VDC ELECTRIC COOLING FAN 1400CFM
DT5-103.22	1	UNV00015878	12VDC DIGITAL TIME SWITCH
RM23-101.27	1	UNV00001332	CHARGE CONTROL REMOTE DIGITAL METER
SP3-101.08 SP3-101.08A SP3-101.08B SP3-101.08C	4	UNV00005453	300W SOLAR PANEL
SC3-101.23	1	UNV00006003	TRISTAR MPPT SOLAR CHARGE CONTROLLER 60 AMP UP TO 150 VOC INPUT, 12-48 VOLTS. 12V-800 WATTS 24V-1600 WATTS 48V-3200 WATTS 11.4'X5.1'X5.6
BC3-101.14	1	UNV00014437	12V 55AMP CHARGER CONVERTER POWER SUPPLY
IN7-105.22	1	UNV00015869	1000W 12VDC - 120VAC POWER INVERTER
PLR5-103.11	1	UNV00007648	24VDC PLR W/ ANALOG INPUT
DV7-105.05	1	UNV00009886	THERMOSTAT

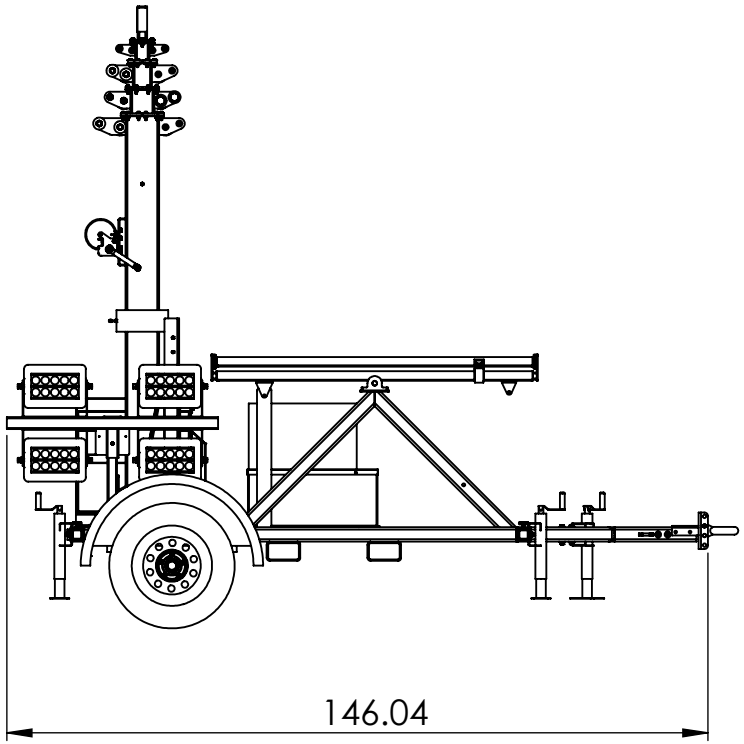
TAGS	QTY	CATALOG	DESCRIPTION
LT8-106.02 LT8-106.06 LT8-106.10 LT8-106.15	4	UNV00008017	100W STADIUM LIGHT 5000K 120-277VAC 18D
MOT6-104.16	1	UNV00014160	5000KVA DIESEL POWERED GENERATOR
PW4-102.03	1	DDR-30G-24	12VDC-24VDC POWER SUPPLY 30W
PW6-104.25	1	UNV00012456	BATTERY CHARGER 12V 26A
PRS5-103.18	1	UNV00006499	12VDC STEM MOUNT PHOTO CONTROL
R3-101.21	1	N/A	5000 OHMS RESISTOR 1/4W
R3-101.19	1	RESISTOR	2800 OHMS RESISTOR 1/4W 1
SS7-105.09	1	UNV00015512	SELECTOR SWITCH MAINTAINED 4P
TG3-101.15	1	UNV00014267	CONTROL SWITCH 300A 24VDC
TG8-106.02 TG8-106.06 TG8-106.10 TG8-106.14	4	UNV00014856	ON-OFF TOGGLE SWITCH
	2	UNV00016633	1 LINE 6 LOAD POWER DITRIBUTION BLOCK 380A
TB1	2	UNV00013970	2 HOLE BLUE TB
TB1	3	UNV00013971	2 HOLE GREY TB
TB1 TB3	11	UNV00013974	4 HOLE GREY TB
TB1 TB3	8	UNV00013975	4 HOLE BLUE TB
TB1 TB3	6	UNV00013976	RED JUMPER FOR 2 HOLE TERM BLOCK
TB1	3	UNV00013989	2 HOLE GREEN TB
TB3	2	UNV00013989	2 HOLE GREEN TB
W3	4	UNV00011954	3 HOLE WAGO
CBL6-104.21	1	UNV00007524	16/3 SOOW CABLE- BLACK
CBL8-106.02	1	UNV00002853	16/7 SOOW
CBL6-104.06	1	UNV00013941	14/7 SOOW CABLE
CBL8-106.02A CBL8-106.02B CBL8-106.06 CBL8-106.06A CBL8-106.10 CBL8-106.10A CBL8-106.14 CBL8-106.14A	8	UNV00007524	CORD 16/3 SOOW UL 90C BLK CABLE

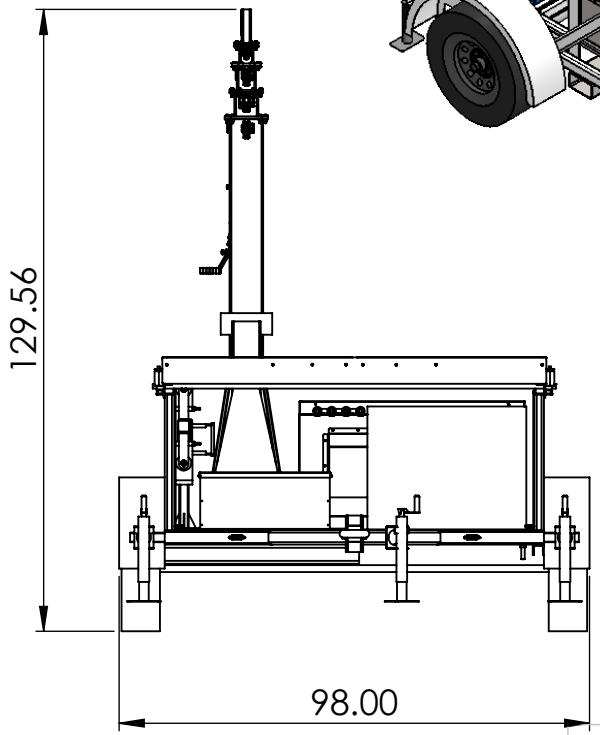
LARSON ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143

TITLE
SPLT-V2-1.06K-LM30-4X90LTL
-ISDG-AT.DNS-BCC-TLR14-240V

DRAWN BY	DATE	REV
K.NGUYEN	12-28-2022	A
CHECKED BY	SHEET #	DRAWING #
S.DESAI	9 OF 9	109







Weight ~ 2850 lbs

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UNLESS OTHERWISE NOTED:

Angle	+/- 1 deg
.X	+/- .2
.XX	+/- .1
.XXX	+/- .05

DIMENSIONS ARE IN INCHES

DO NOT SCALE DRAWING

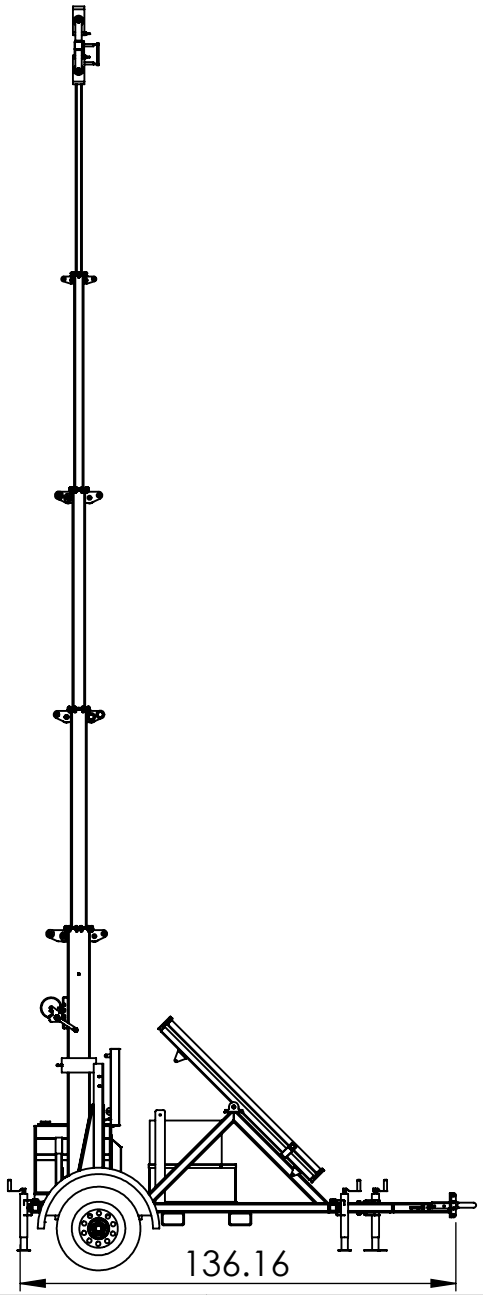
DATE 1/15/2025

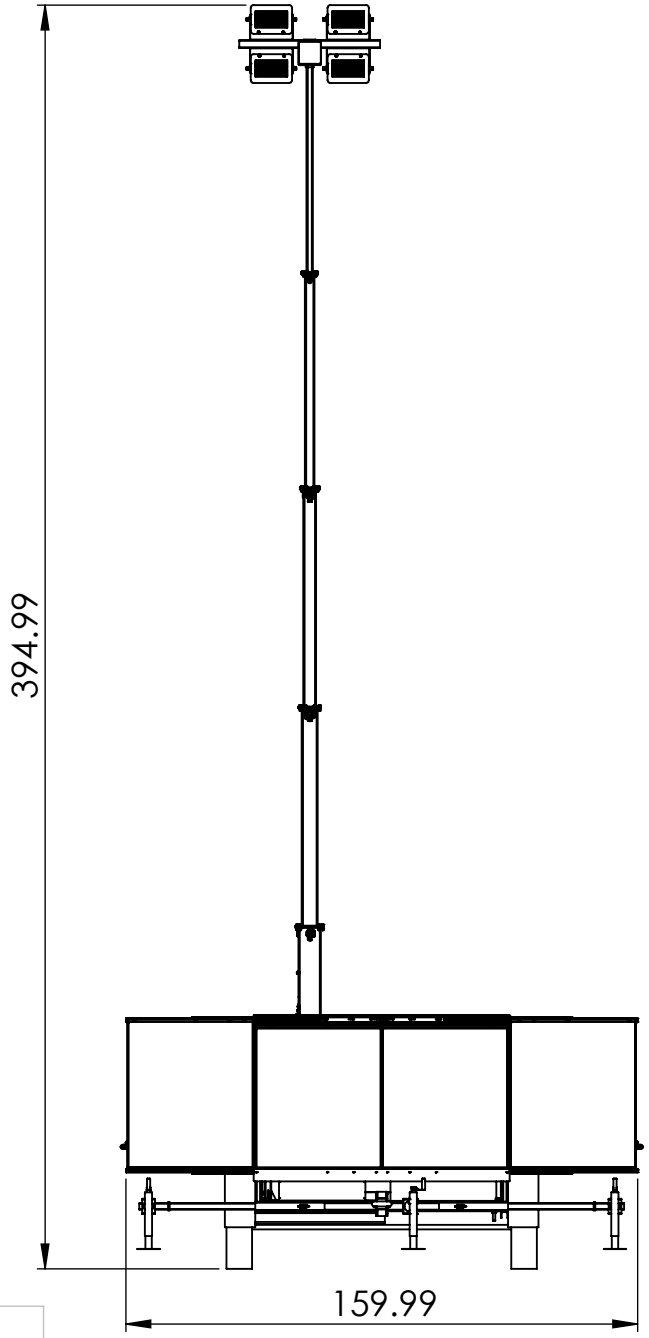
PART NUMBER:
SPLT-V2-1.06K-LM30-4X90LTL-ISDG-AT.DNS-BCC-TLR14

SIZE	REV
A	1

SCALE: NTS

SHEET 1 OF 2





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.XXX	+/- .05

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DATE 1/15/2025

LARSON ELECTRONICS

PART NUMBER:

SPLT-V2-1.06K-LM30-4X90LTL-ISDG-AT.DNS-BCC-TLR14

SIZE	REV
A	**1**

SCALE: NTS

SHEET 2 OF 2








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Frequently Asked Questions (FAQ)