

MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1

1000 KVA Solid-State Frequency Converter - 480V/60 Hz Input to 400V/50 Hz Output - Floor Mount

Product ID: 325584



Image: MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1

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.

MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 Frequency Converter

Unit Type: Solid-State Static Frequency Converter

Dimensions: 192.91"L x 62.99"W x 81.89"H

Weight: 9,920.8 lbs

Rated Input Voltage: 480V +/- 10% 3PH Delta, 3P3W+G

Rated Input Frequency: 60 Hz

Power Factor: 0.99

Capacity: 1000 kVA

Rated Output Voltage: 400V adjustable (0-520V) 3PH+N +/- 1%, 3P3W+G

Rated Output Frequency: 50 Hz adjustable (40-120Hz) +/- 0.01%

Input Circuit Breaker: 1,200A

Output Circuit Breaker: 1,500A

Distribution Circuit Breaker: 3P, 650A; 3P, 30A

Circuit Breaker Dimensions: 12.20" x 12.20" x 72.23"

Rectification: IGBT

Efficiency Ratio: Up to 95%

Load Stabilization Rate: < +/- 1%

Frequency Stability: < +/- 0.01%

Harmonic Distortion: Pure Sine Wave < 2%

Output Waveform: Pure Sine Wave

Overload: 150% for 5 sec.

Total Harmonic Distortion (THD): < 2% (Linear load)

Efficiency: Up to 95%

Dynamic Response (0 to 100% load): 5%, ≤ 50ms

Display: LCD + 4-digit Meters (Digital Frequency Meter – Resolution 0.1Hz; Digital Voltage Meter – Resolution 0.1V; Digital Ammeter – Resolution 0.1A; Digital Watt Meter – Resolution

Features/Ratings

NRTL Listed to UL 508A

Advance Microprocessor Control

True Online Double Conversion

Smart Fan Control

Low Input THDi < 2%

0.1W

Running Mode: Working continuously

Electrical Insulation Properties: 2 kV, 1 Minute

Cooling Method: Fan-cooled

Input Termination: (12) Terminal Lugs

Input Grounding: (2) Ground Lugs

Output Termination: (12) Terminal Lugs

Output Grounding: (2) Ground Lugs

Short-circuit Protection: No automatic recovery, need to restart the machine

Other Protections: Overload, Short circuit, Over Temperature, Instant Power Failure Protection, Alarm

Enclosure Protection Class: IP20

Enclosure: Floor Mounted, Complies with NEMA 250

Altitude: ≤ 6,600ft Above Sea Level

Noise Level: ≤150 dBA at 3.3 feet

Operating Temp. Range: -15°C to +55°C

Relative Humidity: 0-95% (Non-condensation)

Mounting: Floor Mounted

Color: ANSI 49 Gray or ANSI 61 Gray

Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187

Toll Free: 1-800-369-6671

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

The MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 from Larson Electronics is a Solid-State Frequency Converter that is designed for voltage and frequency rectification in industrial locations. This 1000 kVA static converter comes with an input voltage/frequency of 480 V Delta three-phase 60 Hz and an output voltage/frequency of 400 V Delta three-phase 50 Hz. This unit is floor mounted.

The MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 can be used to accurately convert frequencies in industrial sites. This 1000 kVA unit offers three-phase 480 V, 60 Hz on the input side and three-phase 400 V, 50 Hz on the output side. During operation, rectification is completed via IGBT. The static frequency converter provides robust microprocessor control, true online double conversion, and active input power factor correction.

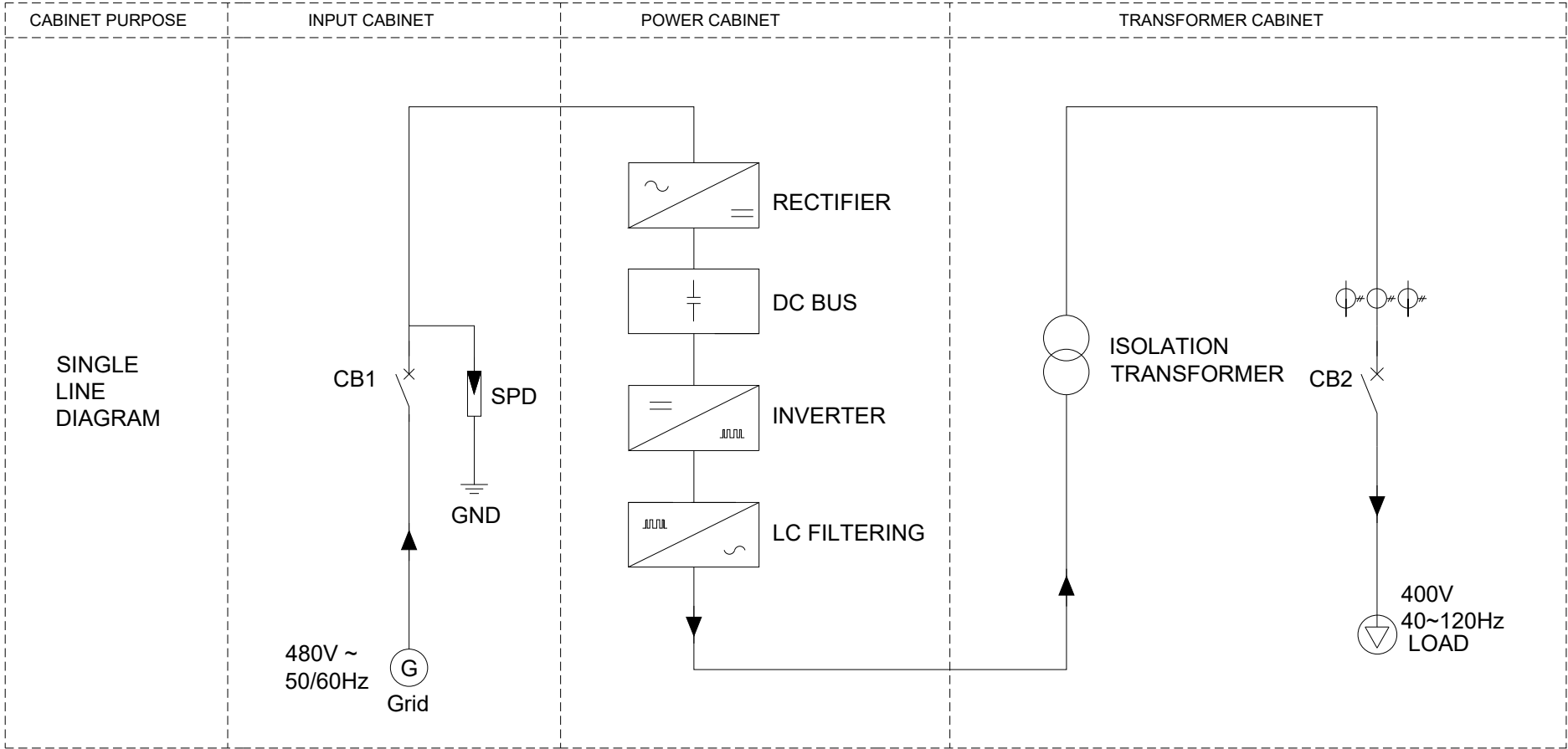
This solid-state frequency converter is equipped with several protective features, including overload, short circuit, over temp, instant power failure connection and alarm. For efficient operation, the unit features smart fan control and ultra high efficiency (98% in Smart Eco Mode). Operators are provided access to a panel, which houses various controls for meters. Available meter components include digital frequency meter, digital voltage meter, digital ammeter, and digital watt meter.

Mounting: The MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 is secured inside a fixed enclosure to be floor mounted in the work site.

Applications: Industrial facilities, laboratories, air compressor testing, power supply testing, motor equipment testing, quality assurance, lighting systems, and more.

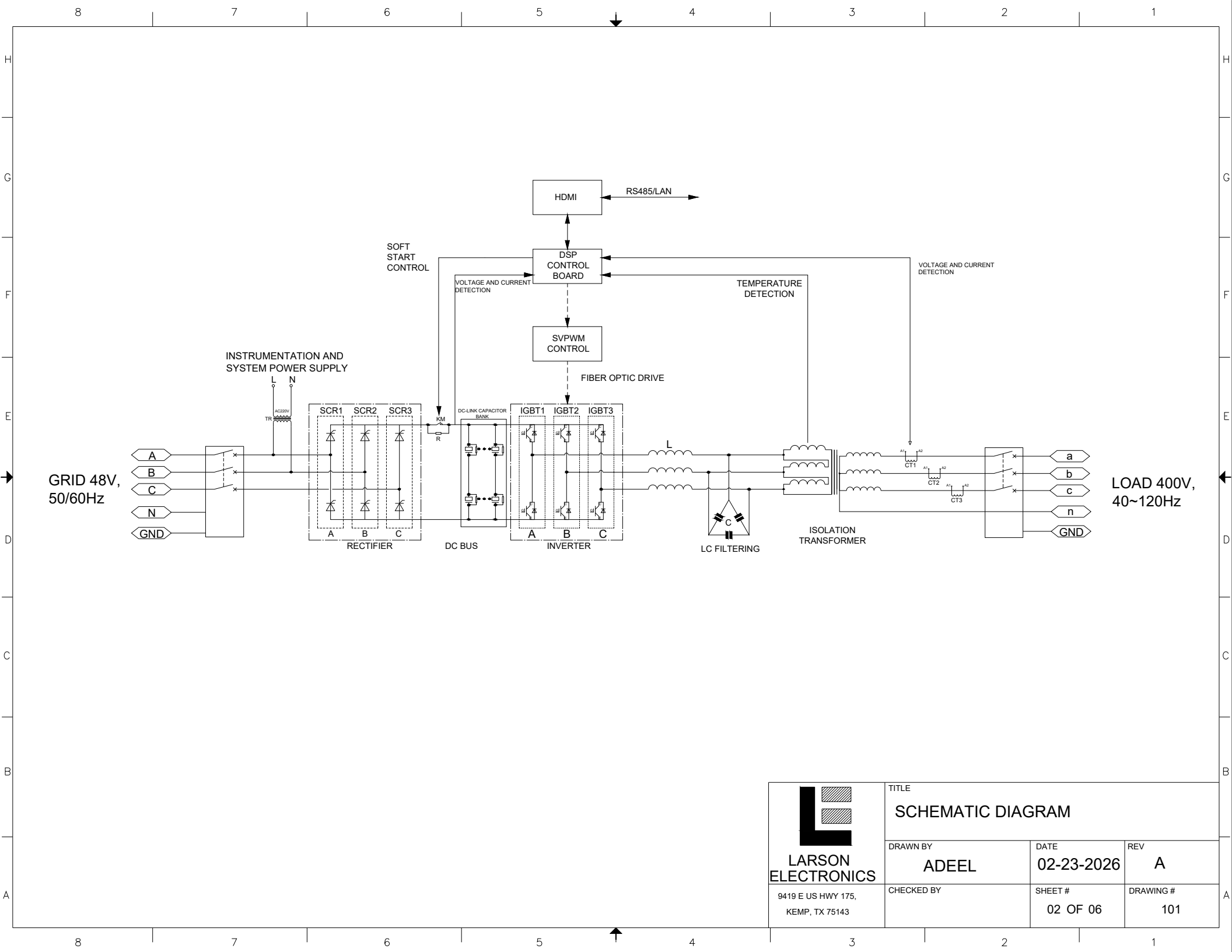
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, 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.

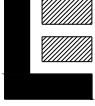
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A	PRODUCT DESCRIPTION	02/23/2026
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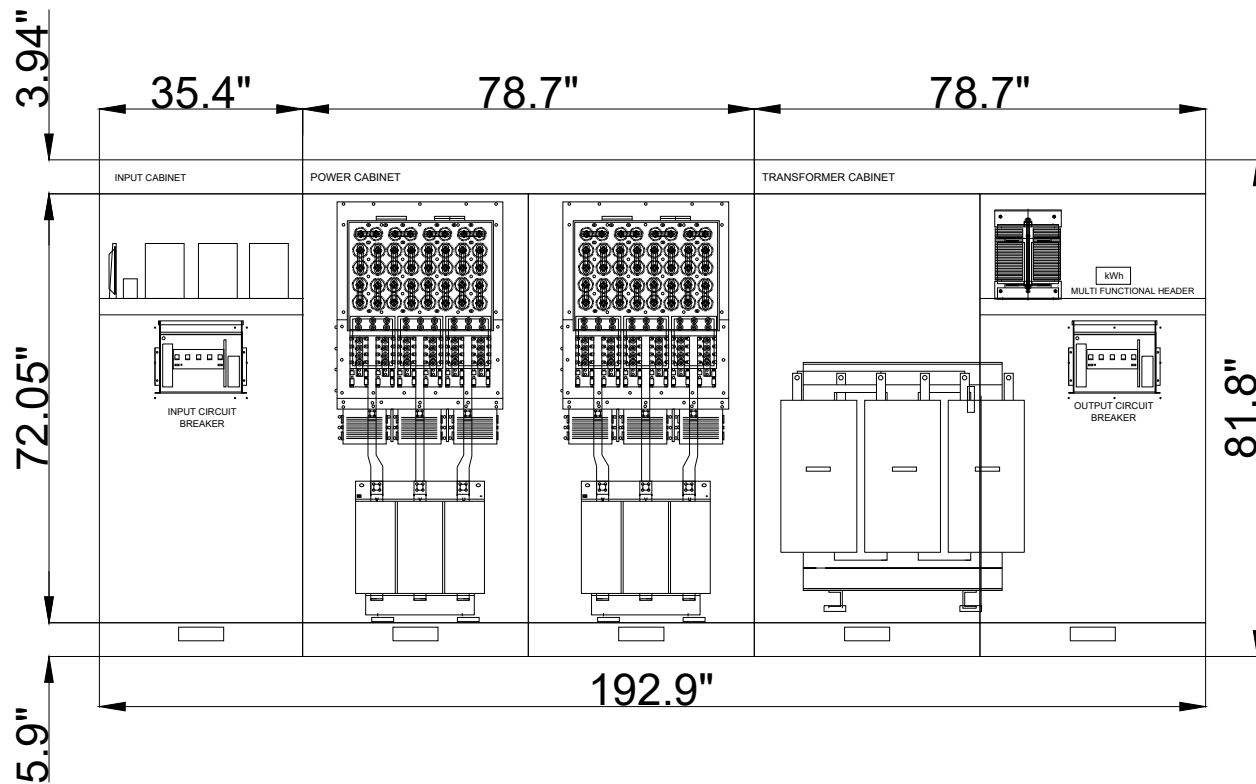


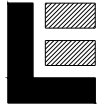
LEGENDS	
	CIRCUIT BREAKER
	SURGE PROTECTIVE DEVICE (SPD)
	ISOLATION TRANSFORMER
	CURRENT TRANSFORMER
	GROUND

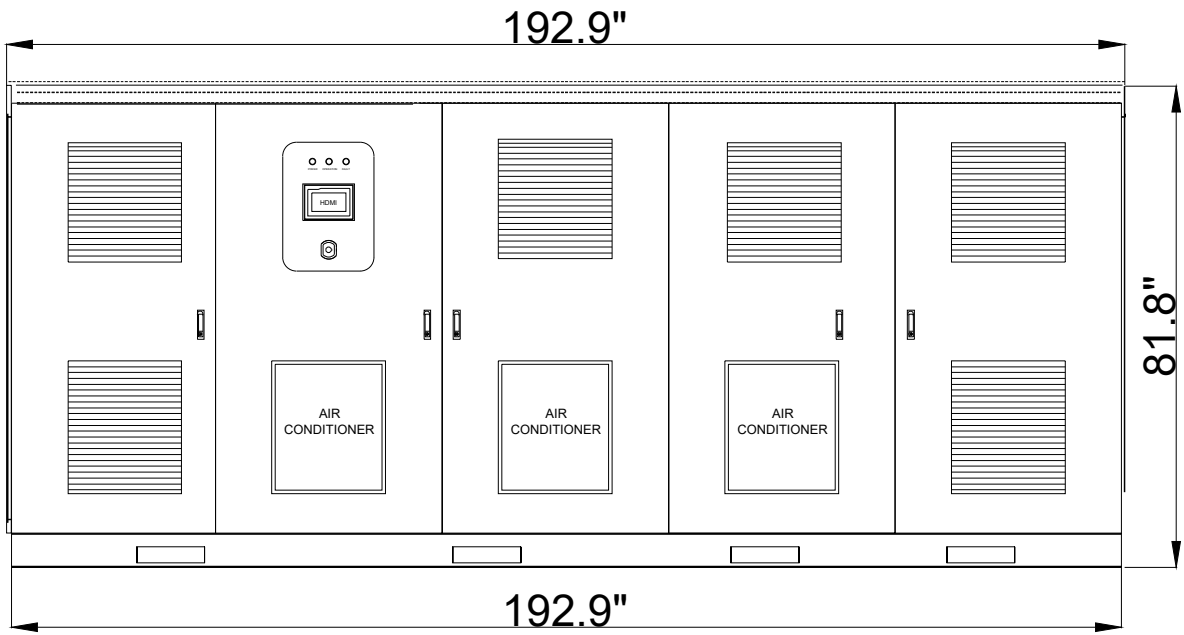
 LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE SINGLE LINE DIAGRAM		
	DRAWN BY ADEEL	DATE 02-23-2026	REV A
	CHECKED BY	SHEET # 01 OF 06	DRAWING # 101



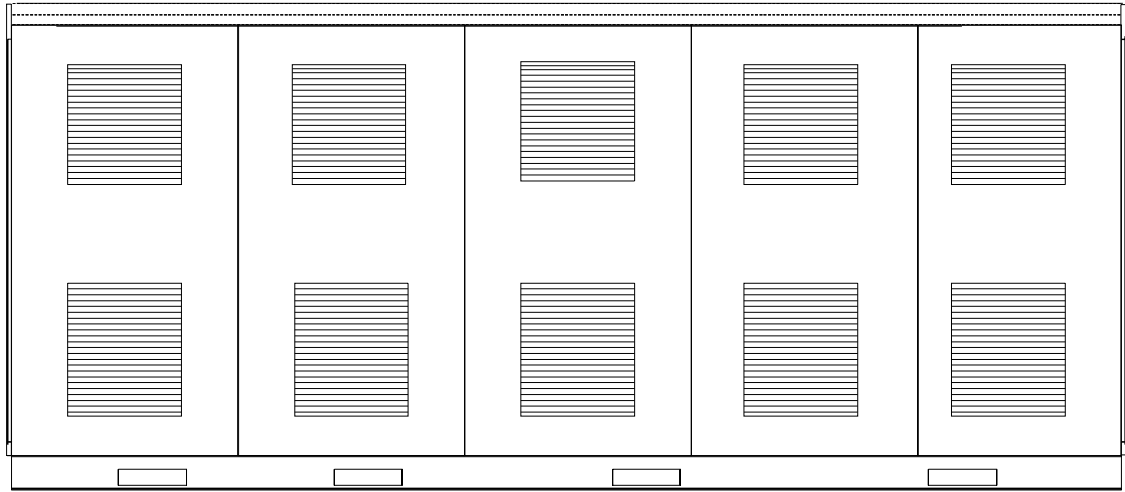
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 LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE OUTLINE DRAWINGS		
	DRAWN BY ADEEL	DATE 02-23-2026	REV A
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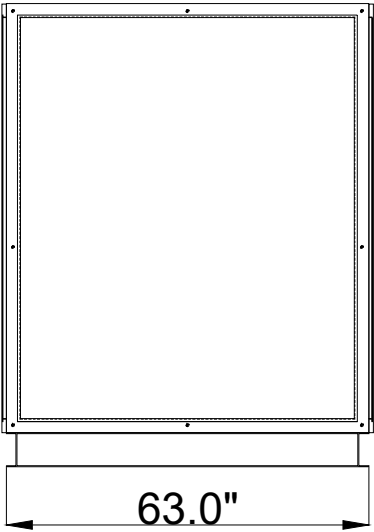


FRONT VIEW



REAR VIEW

RIGHT VIEW



LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE OUTLINE DRAWINGS		
	DRAWN BY ADEEL	DATE 02-23-2026	REV A
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serial number	The name of the device	Technical Specifications	Unit	quantity
1	Power cabinet	NEMA 1	PCS	1
2	Input circuit breaker	1600A/3P	PCS	1
3	Output circuit breaker	1600A/3P, with metering	PCS	3
4	Rectifier unit	1000kVA	PCS	1
5	Bus capacitors	1000V/600 μF	PCS	1
6	DC reactance	1000kVA	PCS	1
7	Inverter unit	1000kVA	PCS	1
8	Filter capacitors	1000V/600 μF	PCS	1
9	AC reactance	1000kVA	PCS	1
10	Isolation Transformers	1000kVA	PCS	1
11	Display screen	7 inches	PCS	1

KEY BRANDS

Serial number	The name of the component	Component brand
1	Breakers	Schneider/People/Tianzheng
2	Rectifier bridge	Mitsubishi/FujiFilm/Ruite
3	IGBT	Infineon/Mitsubishi/Daxin
4	Capacitance	EACO/EPCOS
5	Reactance	Tamura / Nakabian / Kunpeng
6	Transformer	Shunte/Zhongbian/Kunpeng
7	Display screen	Siemens/Weihuntong/Kunlun Tong
8	Cable	Shangshang/Far East/Red Flag

SPARE PARTS

Serial Number	The Name of the device	Technical Specifications	Unit	Quantity
1	Light	Red/Green	PCS	1
2	Temperature	Normally closed at 85° C	PCS	1
3	Capacitance	1100V/600 μF	PCS	1

TECHNICAL PARAMETERS

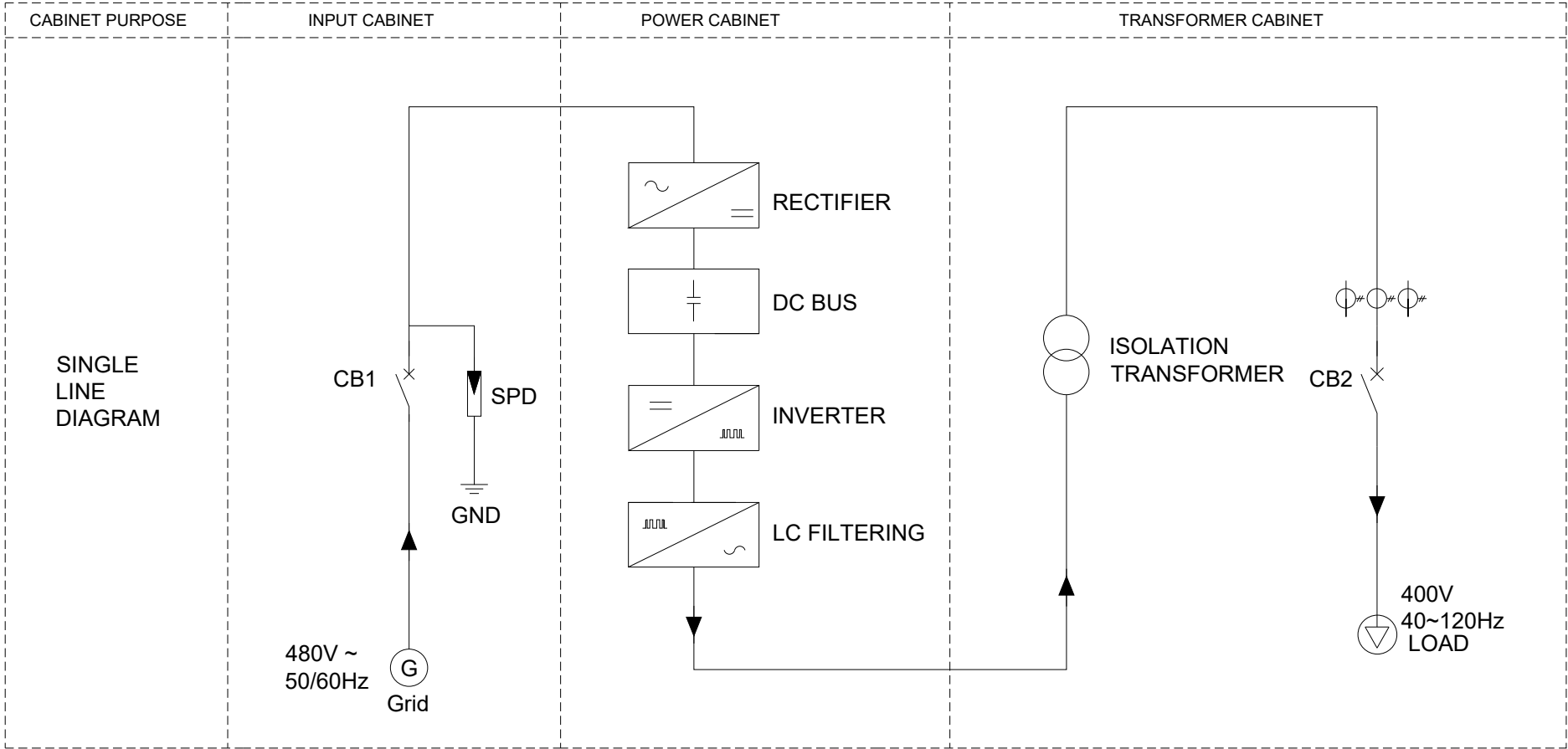
Field	Value
Rated power	1000 kVA
Input power supply system	Three-phase four-wire + EGC
Input voltage range	480V (±15%)
Input frequency range	50/60 Hz (±10%)
Output power supply system	Three-phase four-wire + EGC
Rated output voltage	400V (0-520V Adjustable)
Output current range	1443A
Output frequency range	50Hz/40-120Hz Adjustable
Voltage accuracy	≤1%F.S
Frequency accuracy	≤0.01%
Voltage harmonics (THD)	≤2%
Equipment efficiency	≥95%
Overload capacity	120%/1min; 100%/30min
Protection features	Over/under-voltage, overcurrent, overload, short circuit, overheat, etc.
Local operations	LCD display
Display resolution	Voltage: 0.1V; Current: 0.1A; Frequency: 0.1Hz; Power: 0.1kW
Remote communication	RS485/LAN
Communication protocols	Modbus RTU / Modbus TCP/IP
Compressive strength	2000Vdc/60s/ No breakdown
Insulation resistance	≥20MΩ @ 500Vdc
Noises	≤75 dB(A)
Working environment	Ambient 20°C~45°C; RH 0~95%, 24h operation
Cooling method	Fan forced air
Ingress protection	NEMA 1
Altitude	≤ 5000m (16,404 ft 2.4 in) (≥2000m derating (6,561 ft 8.16 in.))
Power supply size (W×D×H)	192.913 in × 62.992 in × 81.89 in
Net weight	9920.8 lbs (≈4.5T)

LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE		
	TECHNICAL SPECIFICATIONS		
	DRAWN BY	DATE	REV
	ADEEL	02-23-2026	A
	CHECKED BY	SHEET #	DRAWING #
		06 OF 06	101

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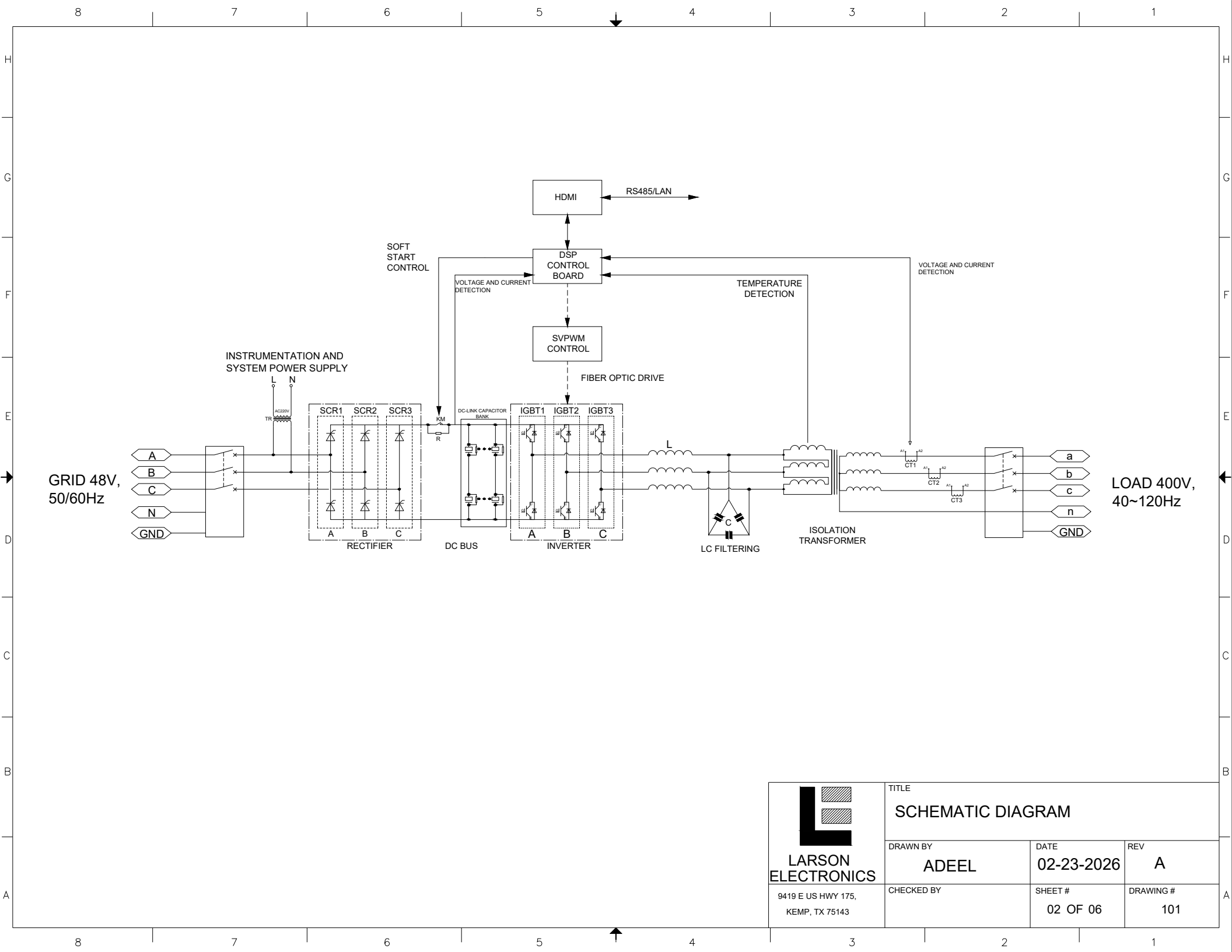
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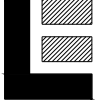


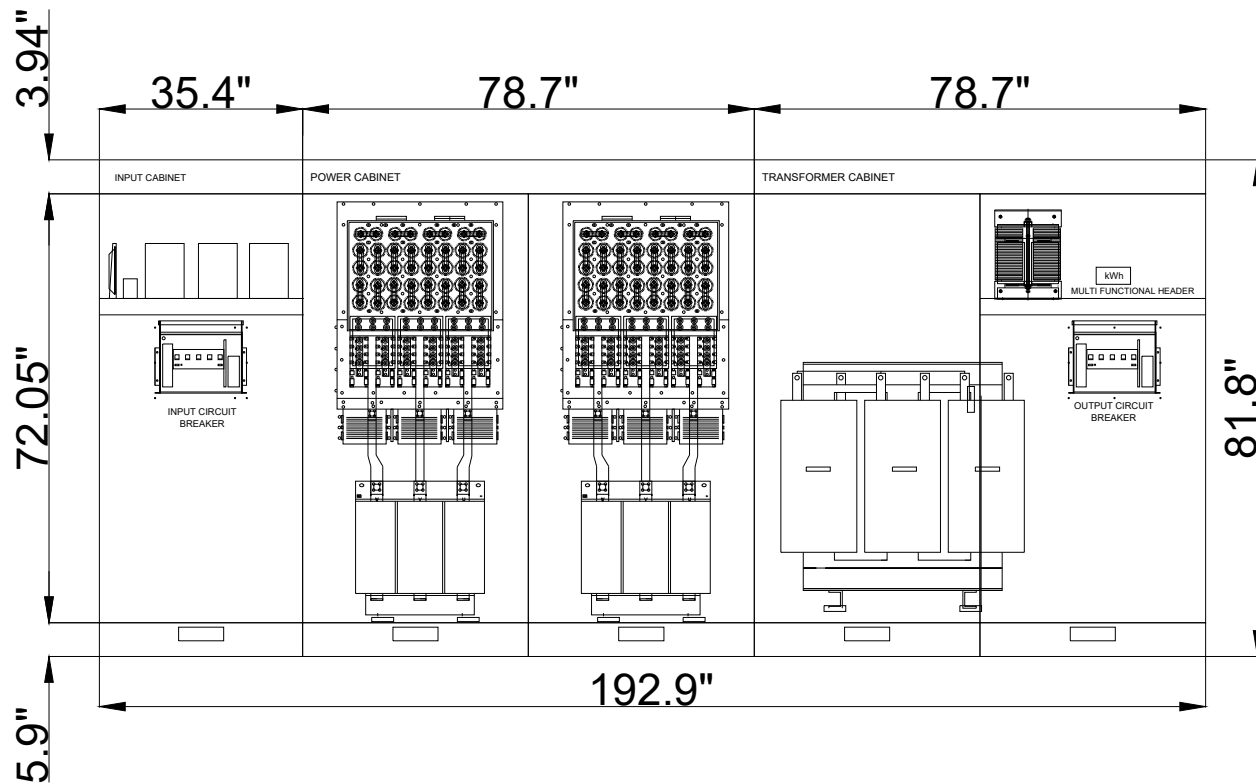


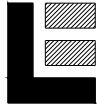
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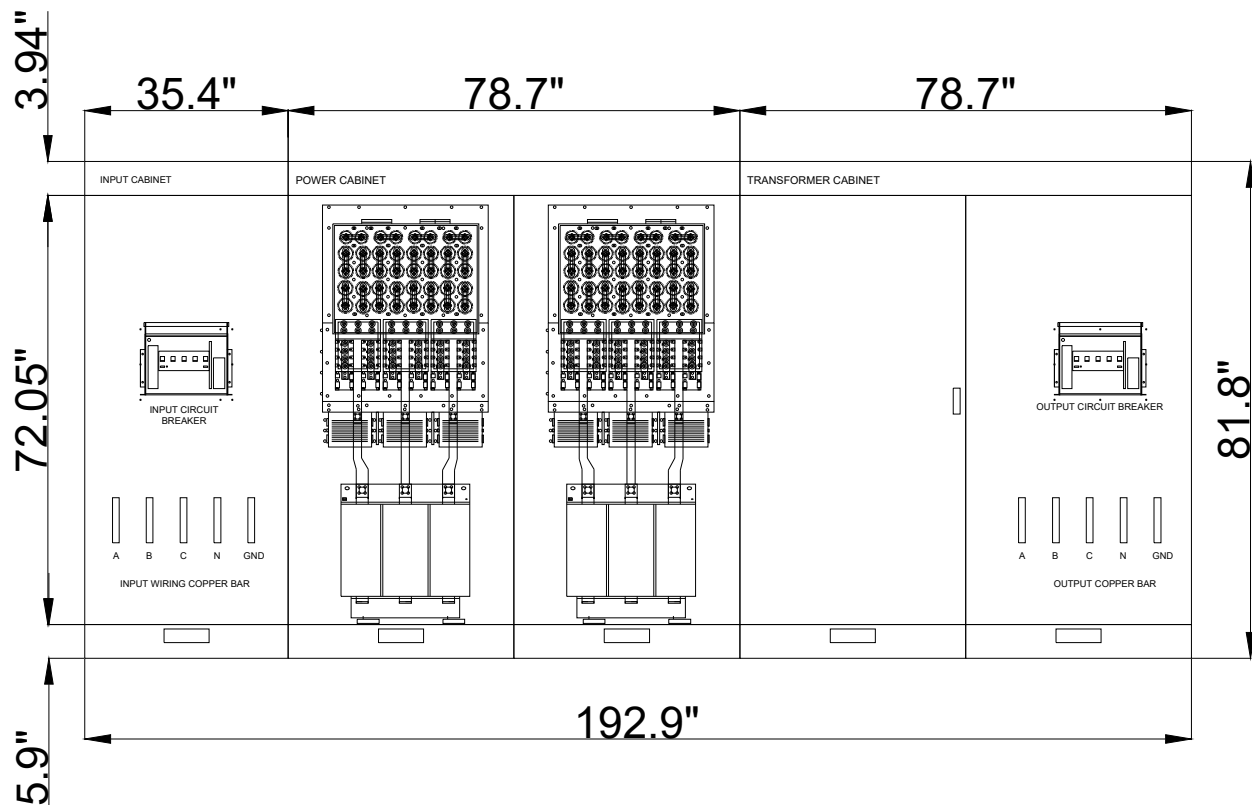
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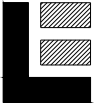


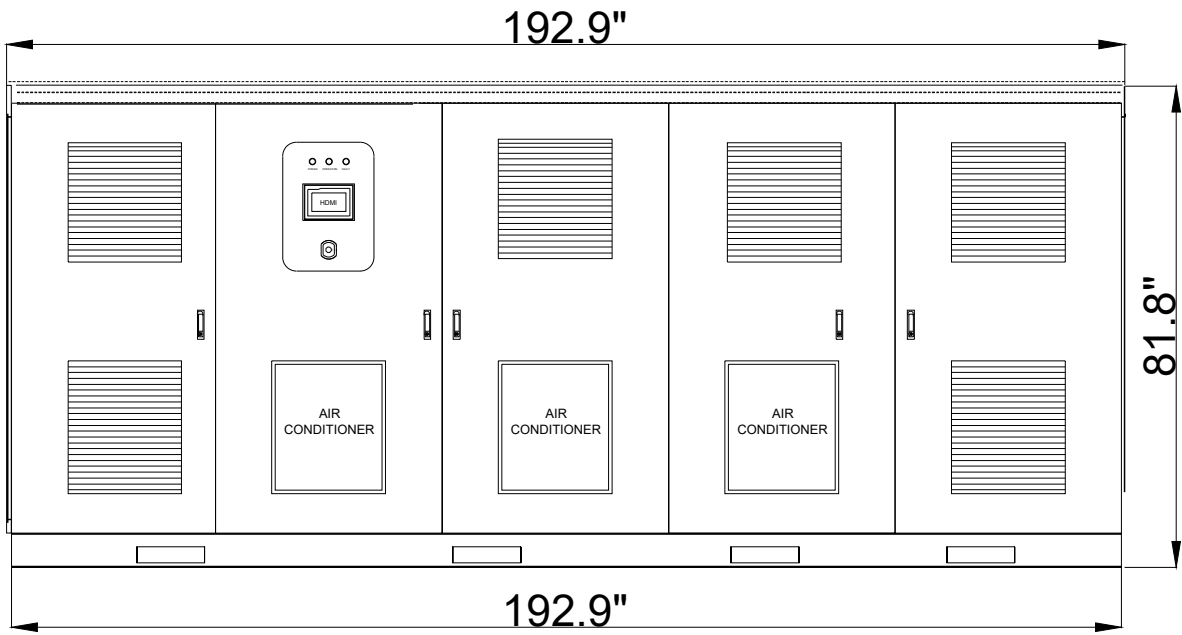
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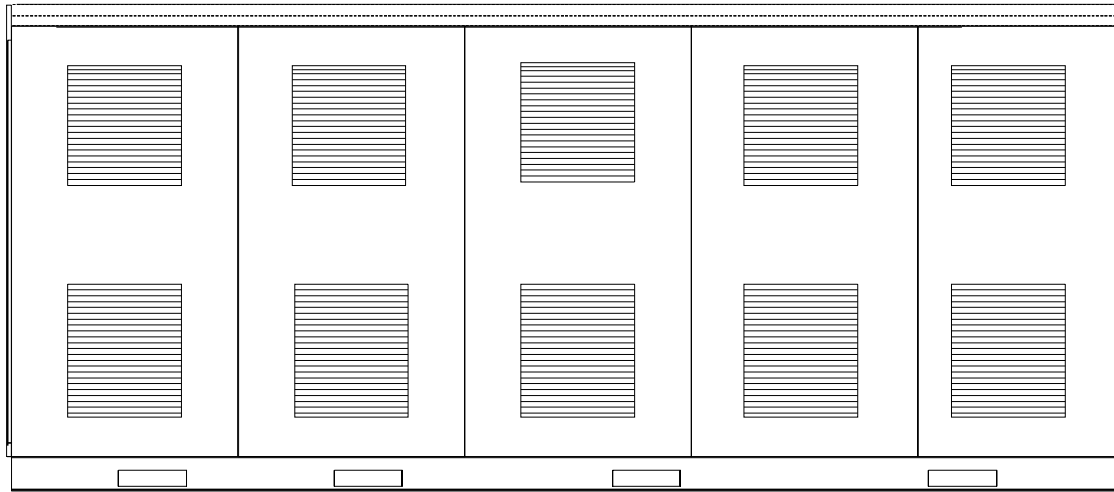
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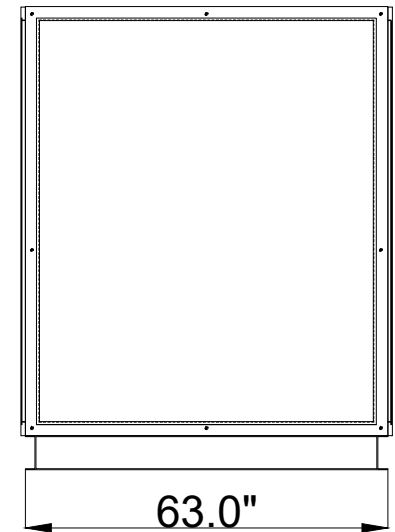


FRONT VIEW



REAR VIEW

RIGHT VIEW



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9	AC reactance	1000kVA	PCS	1
10	Isolation Transformers	1000kVA	PCS	1
11	Display screen	7 inches	PCS	1

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2	Rectifier bridge	Mitsubishi/FujiFilm/Ruite
3	IGBT	Infineon/Mitsubishi/Daxin
4	Capacitance	EACO/EPCOS
5	Reactance	Tamura / Nakabian / Kunpeng
6	Transformer	Shunte/Zhongbian/Kunpeng
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Voltage harmonics (THD)	≤2%
Equipment efficiency	≥95%
Overload capacity	120%/1min; 100%/30min
Protection features	Over/under-voltage, overcurrent, overload, short circuit, overheat, etc.
Local operations	LCD display
Display resolution	Voltage: 0.1V; Current: 0.1A; Frequency: 0.1Hz; Power: 0.1kW
Remote communication	RS485/LAN
Communication protocols	Modbus RTU / Modbus TCP/IP
Compressive strength	2000Vdc/60s/ No breakdown
Insulation resistance	≥20MΩ @ 500Vdc
Noises	≤75 dB(A)
Working environment	Ambient 20°C~45°C; RH 0~95%, 24h operation
Cooling method	Fan forced air
Ingress protection	NEMA 1
Altitude	≤ 5000m (16,404 ft 2.4 in) (≥2000m derating (6,561 ft 8.16 in.))
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	TECHNICAL SPECIFICATIONS		
	DRAWN BY	DATE	REV
	ADEEL	02-23-2026	A
	CHECKED BY	SHEET #	DRAWING #
		06 OF 06	101



Frequently Asked Questions (FAQ)

There are no Faqs