Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

MPD-MES-SF6-3P3W-13-15.5KV-600A-BE-FM-MET-CU-N3R-SS-M3

Metal Enclosed Switchgear, SF6 Gas Insulated Vacuum Fault Interruption, 600 Amp, 15.5 KV AC, 3-Pole 3-Wire, 1 IN 3 OUT, Floor Mount, Bottom Entry, Copper Bus, NEMA 3R, 304L Stainless Steel

Product ID: 326606



Image: MPD-MES-SF6-3P3W-13-15.5KV-600A-BE-FM-MET-CU-N3R-SS-M3

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-MES-SF6-3P3W-13-15.5KV-600A-BE-FM-MET-CU-N3R-SS-M3 Metal Enclosed Switchgear

Unit Type: Metal Enclosed Switchgear, SF6 Gas Insulated Vacuum Fault Interruption
Line-In Connections: Terminal Lugs, Accepts 750MCM-1/0
Line-In Orientation: Bottom Feed
Nominal Voltage: 15000V
Voltage Rating: 15.5 KV AC, 3 Phase, 3 Wire
BIL Rating: 95 KV
Frequency: 60 Hz
Current: Alternate 3 Phase Current
Protection Method: N/A
Protection Type: N/A
Protection Fuses: N/A
Bus Rating: 600 A
Continuous Current Rating: 600 A
Interrupting Fault Current Rating: 12.5 kA
Short Circuit Current Rating: 12.5 kA
Bus Type: Silver-plated copper

Bay #1 (Source Way)
(1) 15kV, 600A, Load Interrupter Switch

Bay #2 (Load Way)
(1) 15kV, 200A, SF6 Fault Interrupter Switch

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 891 Dead Front Switchboards
NEMA 3R Rated for Indoor/Outdoor Use

Made in the USA

Bay #3 (Load Way)
(1) 15kV, 200A, SF6 Fault Interrupter Switch

Bay #4 (Load Way)
(1) 15kV, 200A, SF6 Fault Interrupter Switch

Bushing Rating/Material: 600A rated bushings with removable silver-plated copper threaded studs
Parking Stands: Included, adjacent to each bushing to accommodate horizontal feedthroughs and standoff insulators
Viewing Window: Included
Control Cabinet: Mounted on the side of the enclosure, 18"-Width
Space Heaters: Included, w/ Thermostat
Metering Current & Potential Transformer (CT/PT): Included Mount and Termination CT/PT
Operating Positions: Open/Close/Ground with Padlock Positions
Ground Pad: Included, 2-Hole, 15.5 kV Rated
Line-Out Connection: Terminal Lugs, Accepts 750MCM-1/0
Line-Out Orientation: Bottom Feed
Lifting Brackets: Included, Fitted on the Top of the Enclosure
Form Factor: Rectangular, Slim-profile Enclosure w/ Lockable Door, 1 incoming panels, 3 outgoing panel
Panel Configuration: 1 x Incoming panels, 3 x Outgoing panel
Mounting: Pad Mount
Enclosure Material: 304L Stainless Steel
Enclosure Finish: Munsell™ 7GY 3.29/1.5 Green
Enclosure Type: NEMA 3R, Ventilated
Dimensions: 67"H x 85"W x 47"D
Weight: +/- 800 lbs
Shipping Dimensions: -
Shipping Weight: -
Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Made in the USA

The Larson Electronics MPD-MES-SF6-3P3W-13-15.5KV-600A-BE-FM-MET-CU-N3R-SS-M3 Metal Enclosed Switchgear is designed for reliable, safe and convenient power distribution at industrial work sites. Designed for floor mounting installations. This bottom feed switchgear is protected by a NEMA 3R rated, stainless steel enclosure with a ventilated design.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

The MPD-MES-SF6-3P3W-13-15.5KV-600A-BE-FM-MET-CU-N3R-SS-M3 service entrance switchgear provides a safe and reliable way for operators in industrial settings to tap into and utilize power sources independently of the work area. Compatible with 15.5 KV AC, the switchgear features a manual operating handle. This bottom feed disconnect carries a 12.5 kA at 15.5 KV AC interrupt rating.

Operation: The switchgear features front control panel and rear termination equipped with a locking door. The door provides access to a permanently attached operating handle, which is used for manually disconnecting or connecting power and bur bars (at rear). A dead front cover protects operators from the switches for safety. Operators can inspect the switches

through the dead front via a vented cover. Removing the dead front allows access to the switches

Enclosure Design: The switchgear is protected by a stainless steel enclosure with ANSI green finish. A ventilated design promotes natural cooling and improves performance. The enclosure is NEMA 3R rated for protection against water, moisture and debris. This rating allows the fused disconnect to be used in indoor/outdoor areas.

Certification: This switchgear is NRTL listed to UL 891 dead front switchboards and NRTL listed for service equipment.

Mount: Operators can mount the service entrance disconnect on floors and flat surfaces.

Customization: The MPD-MES-SF6-3P3W-13-15.5KV-600A-BE-FM-MET-CU-N3R-SS-M3 can be customized to meet specific operating and power requirements. Example of customizations include:

• Making the disconnect switches portable and certified to NRTL UL 1640 for portable equipment

• Adding single pole camlock connectors for quick connections

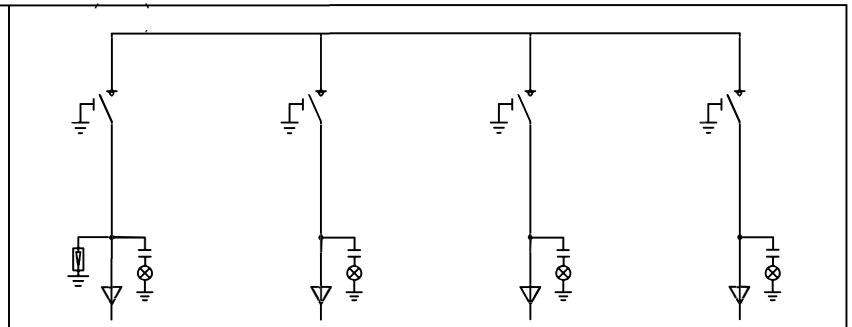
• Adding heaters for cold environments

• Aiding alarm relays for trip notification downstream

• Adding power meters

Applications: This switchgear is suitable for indoor/outdoor use and applications including, but not limited to, solar equipment, construction sites, plant maintenance, plant turnarounds, hazardous location operations, shows, exhibits, and shipyard operations.

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.

15kV primary system diagram								
Loop function	Incoming cabinet		Outgoing cabinet		Outgoing cabinet		Outgoing cabinet	
Cabinet No.	G01		G02		G03		G04	
Cabinet model	SF6-15 Fully insulated cabinet							
Module type	C		C		C		C	
Bus current	600A		600A		600A		600A	
Load break switch								
Isolation switch								
Operating mechanism	Manual operation		Manual operation		Manual operation		Manual operation	
HV fuse								
PT								
CT								
Dead front arrester /PT connector		3						
Dead front elbow connector (front, rear)	Floodproof and touchable	3	Floodproof and touchable	3	Floodproof and touchable	3	Floodproof and touchable	3
Live display		1		1		1		1
Microcomputer protection								
Voltmeter								
Ammeter								
Zero sequence CT								
Short-circuit fault indicator								
Temperature and humidity controller	WSK-G AC220V 50W	1		1		1		1
Cabinet (W*D*H)	64.80"*29.65"*48.66"							
I/O cable model								
I/O cable type								
Remark								

Note:

1. This arrangement is in a forward-facing layout, fully insulated with SF6 gas, and adopts a fully enclosed common-tank design.

2. Incoming and outgoing load switches utilize spring-operated mechanisms. Both incoming and outgoing switches has three positions and all of which are manually operated.

3. Each switchgear cabinets is equipped with live display, which are plug-in type and have secondary phase checking holes.

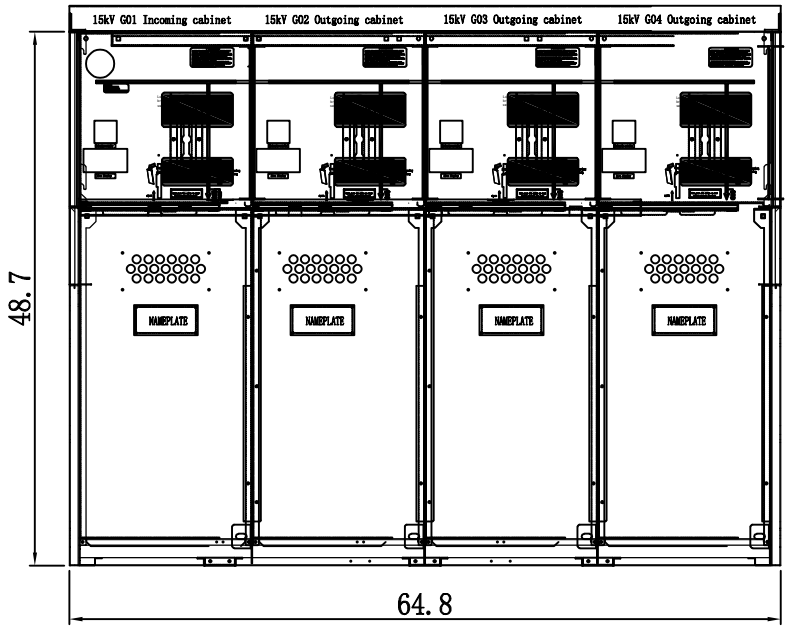
4. All equipment is well grounded, with a grounding resistance not exceeding 4 ohms.

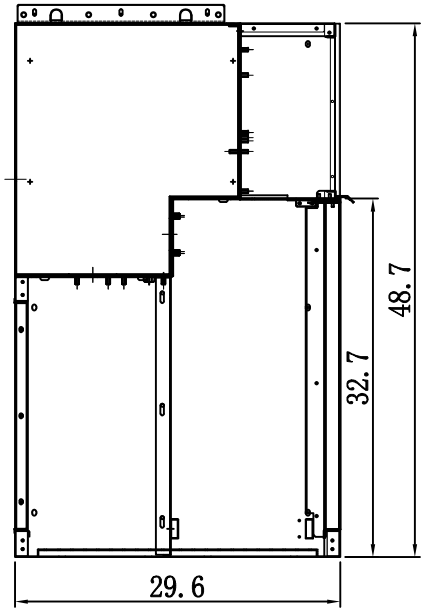
5. This plan is designed for outdoor operation.

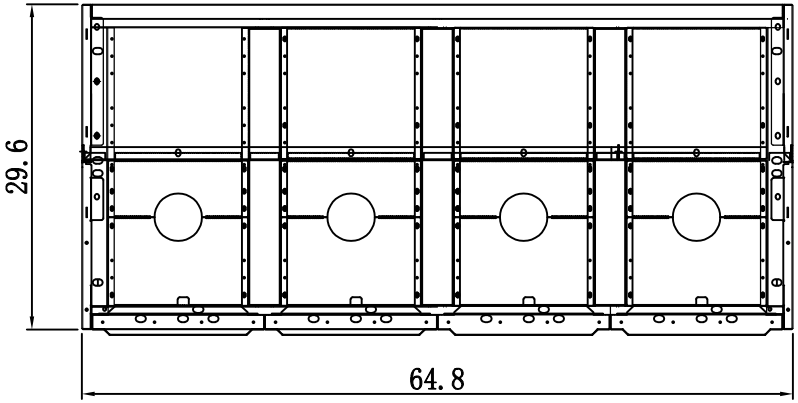
Note: 1. The incoming switch with grounding.

2. Dimensions of incoming/outgoing cable terminations to be determined.

1-in 3-out cable distribution cabinet (for export)	M L
15kV primary schematic diagram	
	LARSON MAGNETICS

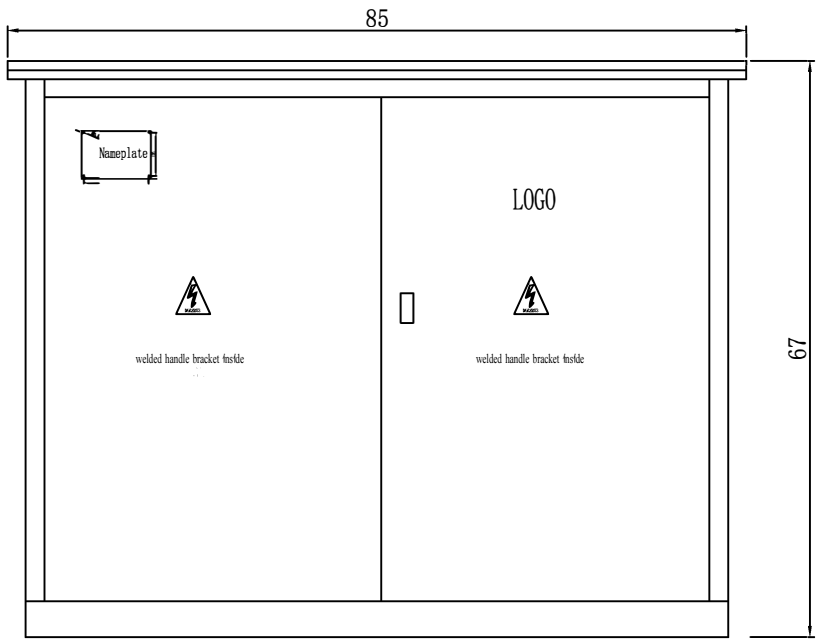


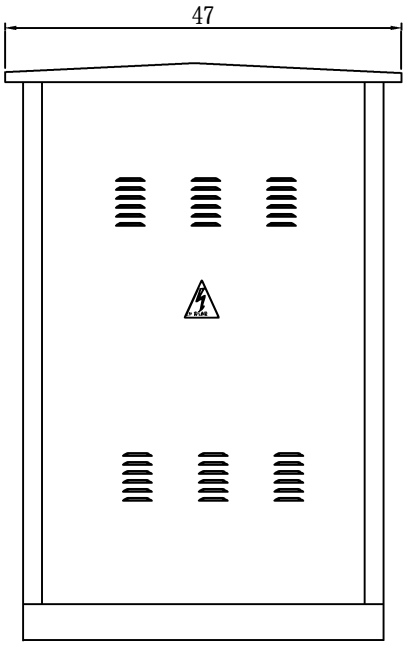




No rear sealing plate

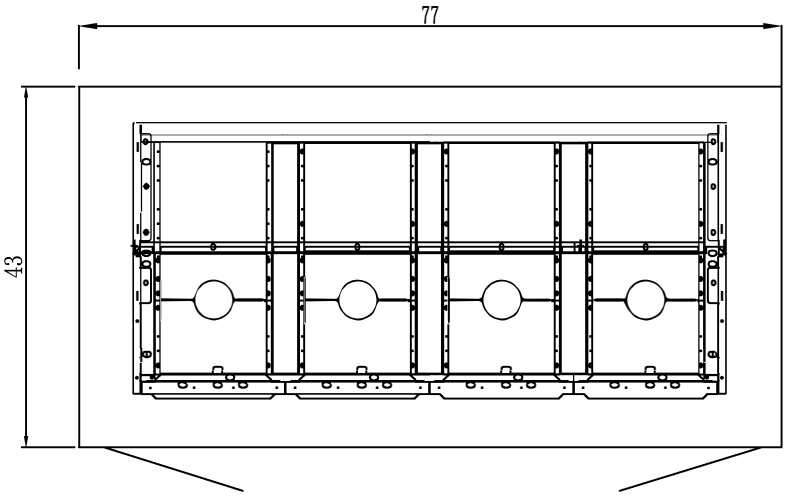
Plan schematic and channel base drawing	
	LARSON MAGNETICS





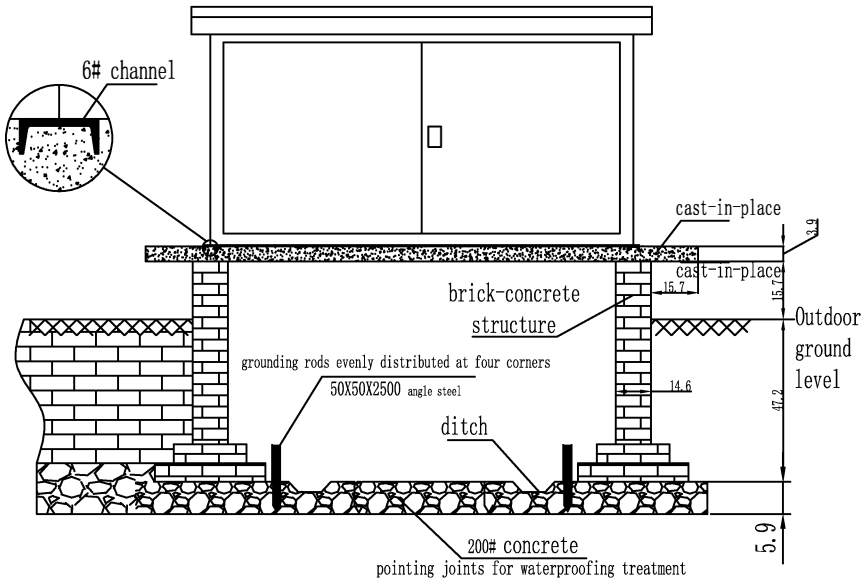
1.Doors are installed on all four sides (front, rear, left, right).Front and rear doors equipped with padlock mounts. Side doors with concealed locks (optional). Anti-pinch wind hooks installed on all doors. Louvered heat dissipation vents with internal protective mesh on left, right, and rear doors (upper/lower sections).
2.DANGEROUS-signs printed on all sides of the cabinet.
3.Material: Door locks use MS-888 or equivalent weatherproof and anti-theft lock boxes.
4.A nameplate hole of 180*120m, Φ4.2m, should be drilled in the upper left corner of the front door of the outdoor cabinet.

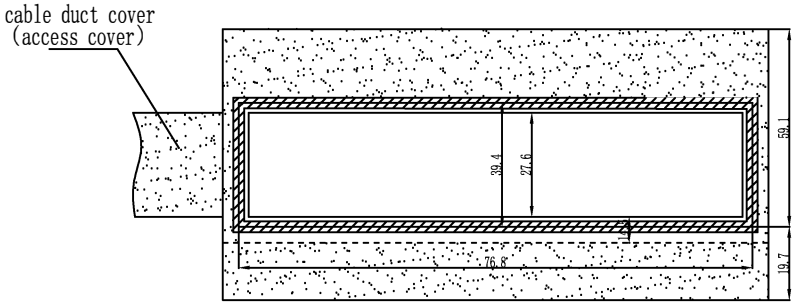
Base frame technical requirements:
1.The material is 10# channel steel welded.
2.All weld seams must be ground smooth.



304L Stainless steel Enclosure color: Munsell bell green

1-in 3-out cable distribution cabinet (for export)	
4-Compartment	
Outdoor cabinet dimension diagram	
	LARSON MAGNETICS





Technical requirements

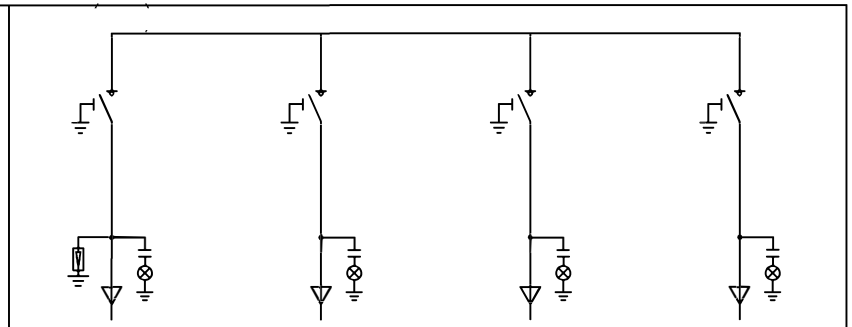
1. The foundation of the box-type transformer is solid and the cabinet can bear the its weight. To prevent the base of the box-type transformer from deforming and affecting the closing of the door, the foundation must be leveled and measured.

2. Use 50*50*5 angle steel for grounding and 4*40 flat steel for connecting. The grounding resistance should be less than 4Ω.

3. Add protective nets to the inner side of the blinds.

4. Cement mortar should be applied to both the inner and outer sides of the brick wall for waterproofing treatment.

1-in 3-out cable distribution cabinet (for export)	
4-Compartment Outdoor cabinet dimension diagram foundation drawing	
	LARSON MAGNETICS

15kV primary system diagram								
Loop function	Incoming cabinet		Outgoing cabinet		Outgoing cabinet		Outgoing cabinet	
Cabinet No.	G01		G02		G03		G04	
Cabinet model	SF6-15 Fully insulated cabinet							
Module type	C		C		C		C	
Bus current	600A		600A		600A		600A	
Load break switch								
Isolation switch								
Operating mechanism	Manual operation		Manual operation		Manual operation		Manual operation	
HV fuse								
PT								
CT								
Dead front arrester /PT connector		3						
Dead front elbow connector (front, rear)	Floodproof and touchable	3	Floodproof and touchable	3	Floodproof and touchable	3	Floodproof and touchable	3
Live display		1		1		1		1
Microcomputer protection								
Voltmeter								
Ammeter								
Zero sequence CT								
Short-circuit fault indicator								
Temperature and humidity controller	WSK-G AC220V 50W	1		1		1		1
Cabinet (W*D*H)	64.80"*29.65"*48.66"							
I/O cable model								
I/O cable type								
Remark								

Note:

1. This arrangement is in a forward-facing layout, fully insulated with SF6 gas, and adopts a fully enclosed common-tank design.

2. Incoming and outgoing load switches utilize spring-operated mechanisms. Both incoming and outgoing switches has three positions and all of which are manually operated.

3. Each switchgear cabinets is equipped with live display, which are plug-in type and have secondary phase checking holes.

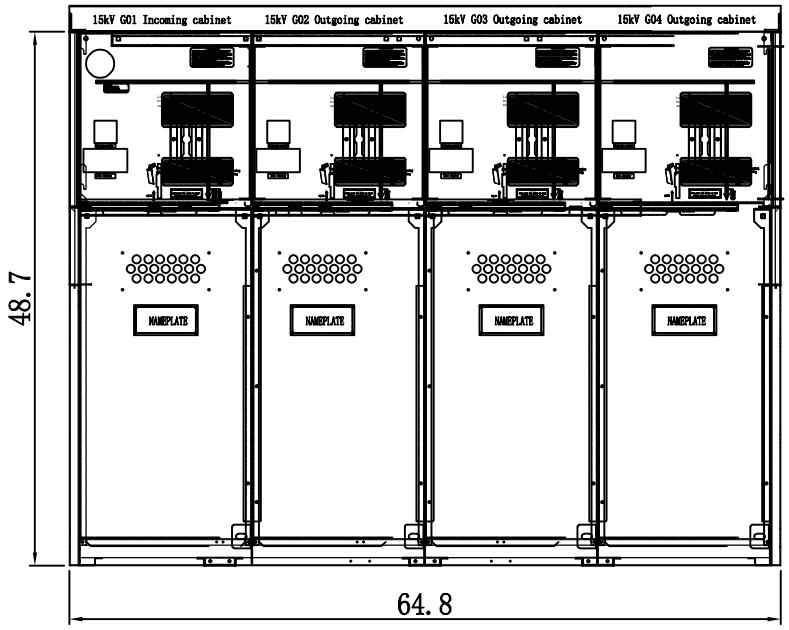
4. All equipment is well grounded, with a grounding resistance not exceeding 4 ohms.

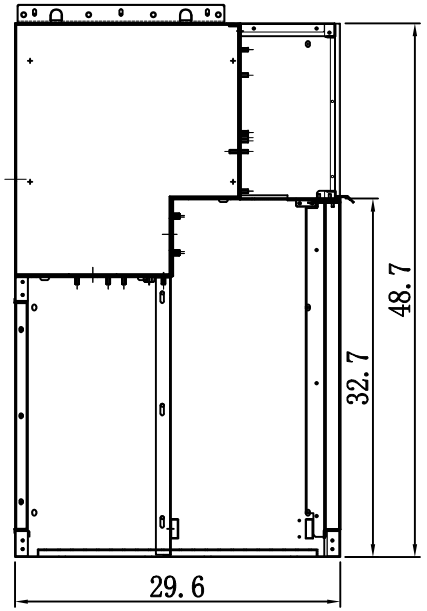
5. This plan is designed for outdoor operation.

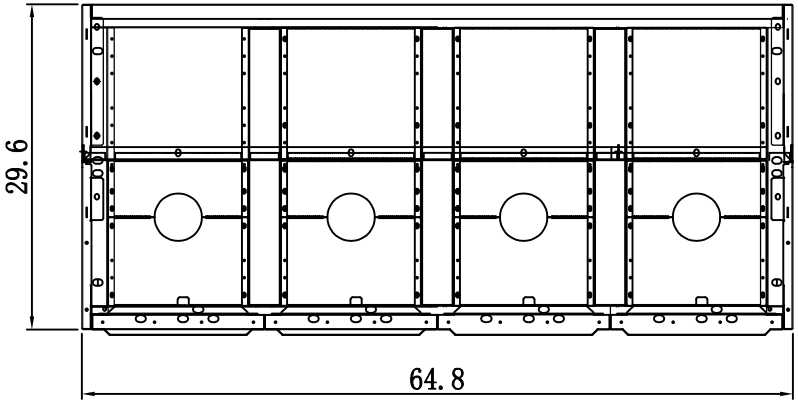
Note: 1. The incoming switch with grounding.

2. Dimensions of incoming/outgoing cable terminations to be determined.

1-in 3-out cable distribution cabinet (for export)	M L
15kV primary schematic diagram	
	LARSON MAGNETICS

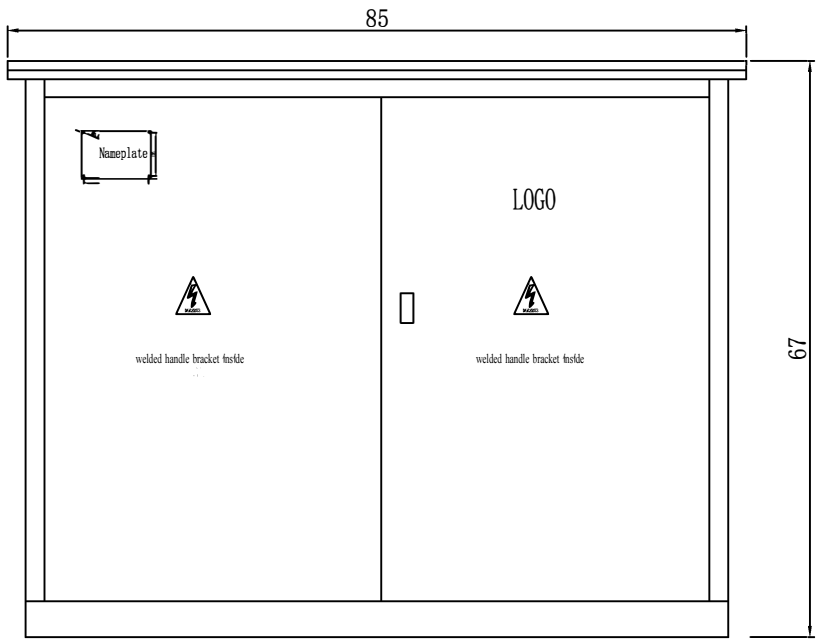


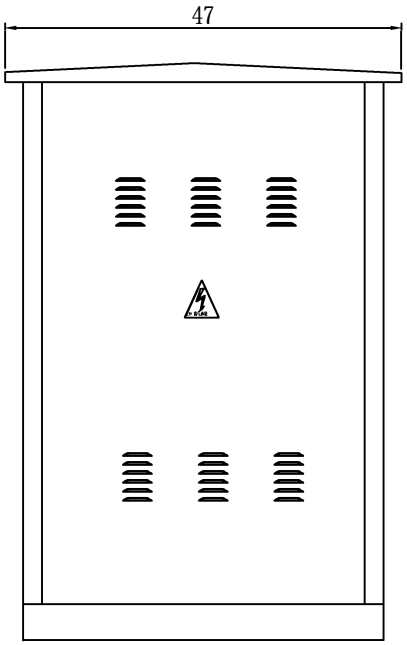




No rear sealing plate

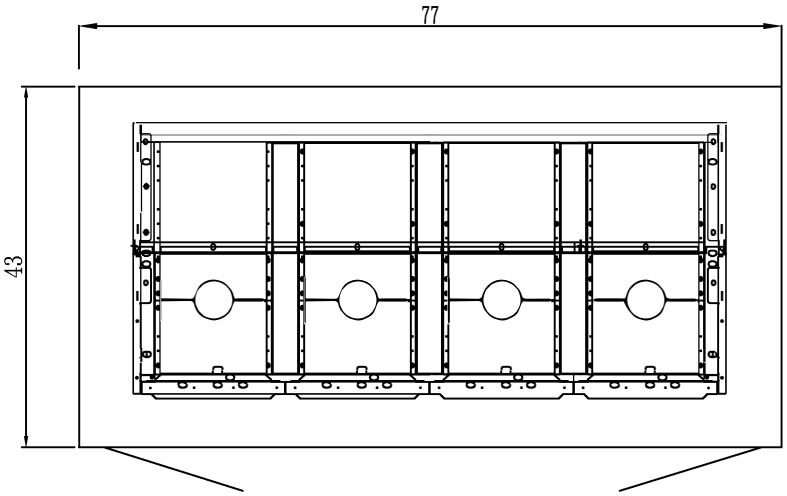
Plan schematic and channel base drawing	
	LARSON MAGNETICS





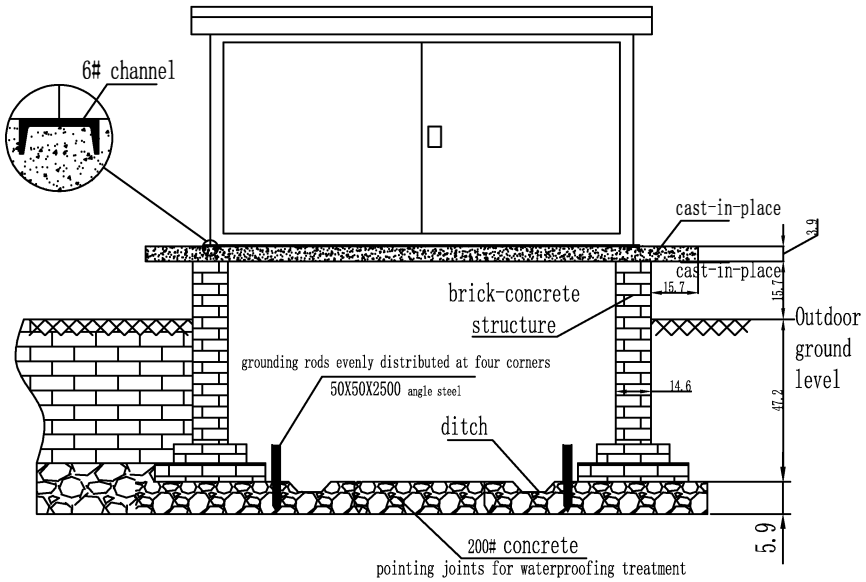
1.Doors are installed on all four sides (front, rear, left, right).Front and rear doors equipped with padlock mounts. Side doors with concealed locks (optional). Anti-pinch wind hooks installed on all doors. Louvered heat dissipation vents with internal protective mesh on left, right, and rear doors (upper/lower sections).
2.DANGEROUS-signs printed on all sides of the cabinet.
3.Material: Door locks use MS-888 or equivalent weatherproof and anti-theft lock boxes.
4.A nameplate hole of 180*120m, Φ4.2m, should be drilled in the upper left corner of the front door of the outdoor cabinet.

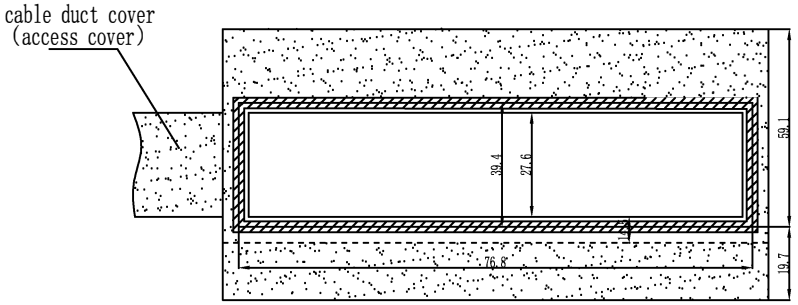
Base frame technical requirements:
1.The material is 10# channel steel welded.
2.All weld seams must be ground smooth.



304L Stainless steel Enclosure color: Munsell bell green

1-in 3-out cable distribution cabinet (for export)	
4-Compartment	
Outdoor cabinet dimension diagram	
	LARSON MAGNETICS





Technical requirements

1. The foundation of the box-type transformer is solid and the cabinet can bear the its weight. To prevent the base of the box-type transformer from deforming and affecting the closing of the door, the foundation must be leveled and measured.

2. Use 50*50*5 angle steel for grounding and 4*40 flat steel for connecting. The grounding resistance should be less than 4Ω.

3. Add protective nets to the inner side of the blinds.

4. Cement mortar should be applied to both the inner and outer sides of the brick wall for waterproofing treatment.

1-in 3-out cable distribution cabinet (for export)	
4-Compartment Outdoor cabinet dimension diagram foundation drawing	
	LARSON MAGNETICS

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664



Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664



Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664



Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664



Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Frequently Asked Questions (FAQ)

There are no Faqs