

# WeldingRACK™ WR6

## 6-Pack Welder

### Power Distribution Station

### Installation & User Manual



- Distribute Power to Six Standard Welders
- Provides 120 VAC Convenience Power
- Stores & Transports Welders in a Robust, Convenient Rack
- Made in the USA



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## Welcome

Welcome to the owner's manual for the WR6 WeldingRACK. This guide contains the procedures for safe and efficient use of the WR6 WeldingRACK, including welder installation.

The design of the Lex Products WR6 WeldingRACK enables power management of up to six welder packs and utility power. Creating a power distribution center on job site allows for convenience of cable management and set up, while reducing the need for additional power distribution units.

**Caution:** Changes/Modifications not approved by Lex Products could void the user's authority to operate the equipment.



## **IMPORTANT SAFEGUARDS** - Read this first

All equipment manufactured by Lex Products is designed, built and tested to strict safety regulations. Observe all precautions when installing this unit. By following the safety warnings listed below and elsewhere within this guide, you can ensure the safe and proper installation and operation of these units. Please read and follow all warnings given in this guide.

### **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

1. All sections of this installation guide **MUST** be followed in sequence in order to properly install this unit.
2. All installation services must be performed by qualified personnel or service technicians.
3. Install in accordance with National Electrical Code (NEC) and any other national or local codes that are enforced in your area.
4. Always turn **OFF** all power before any service is performed on a panel. Test that power is **OFF** prior to handling conductors.
5. Do not store outdoors.
6. Use this product only as intended and at the listed voltage(s).
7. Use extreme caution when performing maintenance on this equipment. Failure to follow this warning, and proper safety procedures, could result in severe injury and/or damage to the equipment.
8. Once installation is complete ensure that all caution and warning labels are present and clearly visible.
9. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
10. Do not use this equipment for other than intended use.

### **SAVE THESE INSTRUCTIONS**



## **GARANTIES IMPORTANTES** - Lisez cette première

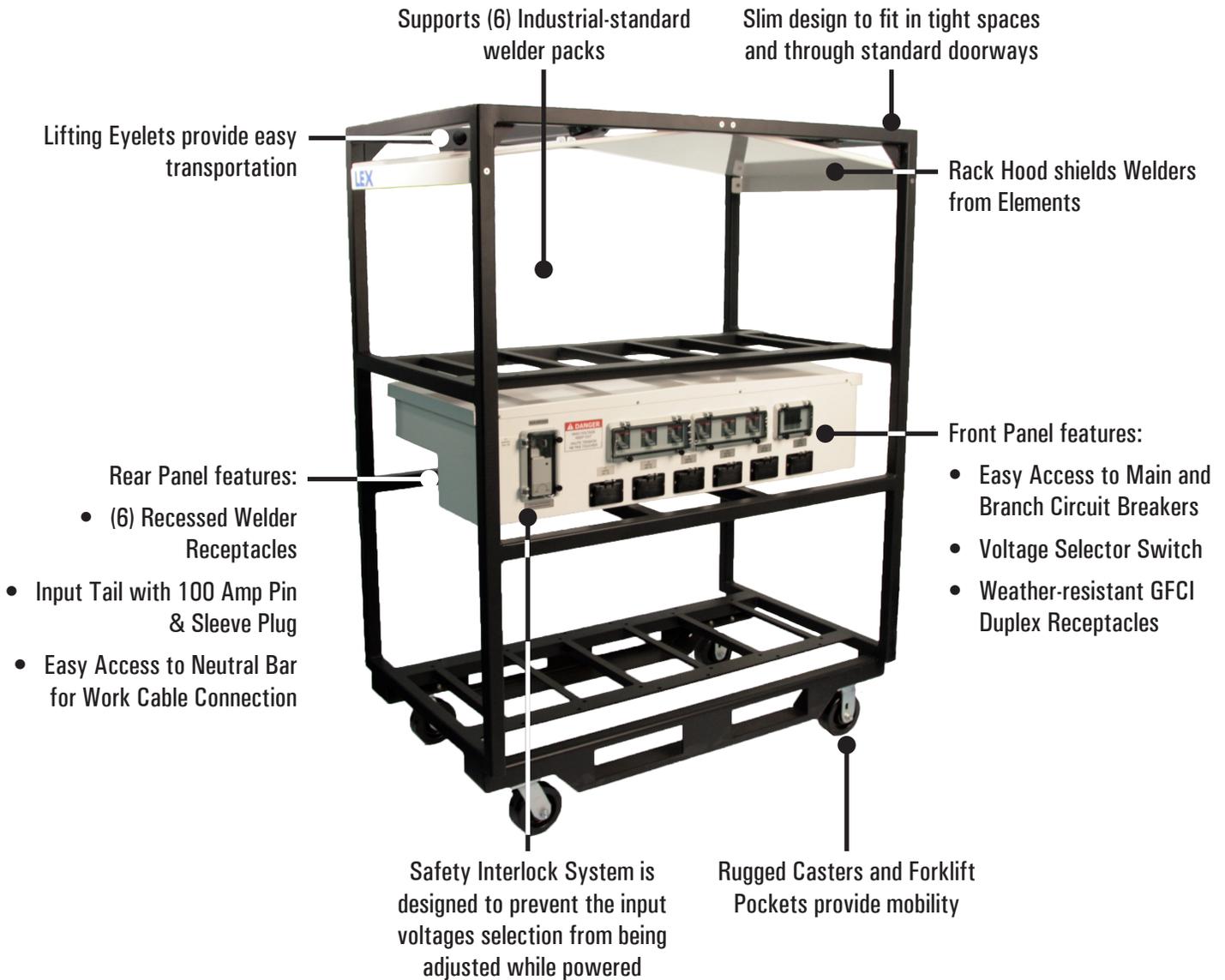
Tous les appareils sont fabriqués et assemblés par les produits Lex et sont testés par des règles de sécurité très strictes. Toutes les précautions ont été prises lors de l'installation de cet appareil. Veuillez lire et respecter tous les avertissements donnés dans ce guide. Veuillez lire et respecter tous les avertissements donnés dans ce guide.

### **LIRE ET SUIVRE TOUTES LES INSTRUCTIONS DE SÉCURITÉ**

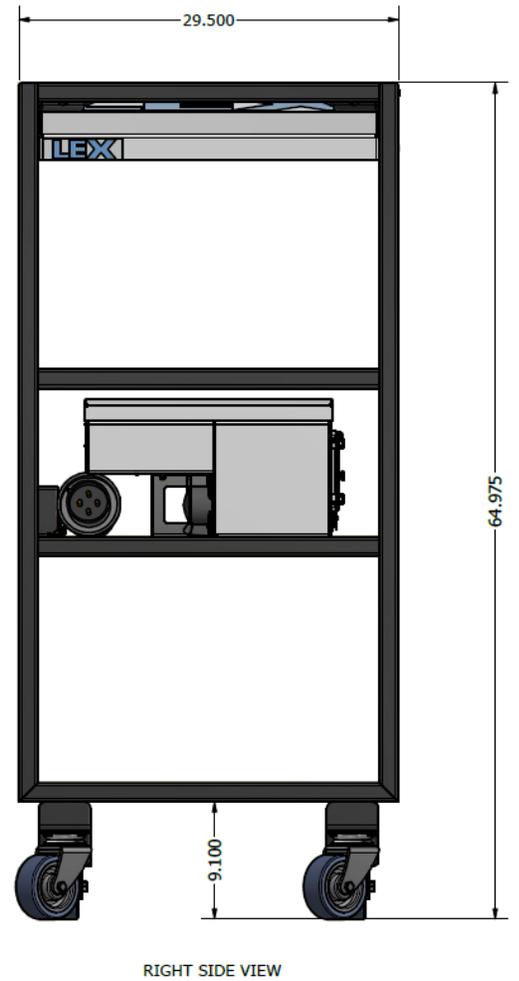
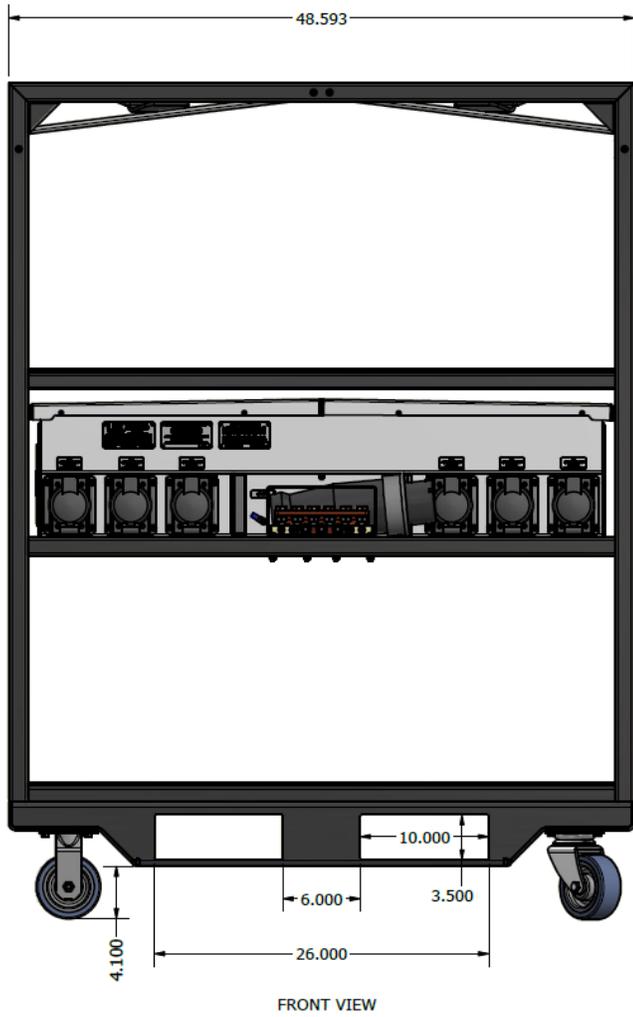
1. Toutes les sections de ce guide d'installation doit être suivie dans l'ordre afin d'installer correctement cette unité.
2. Tous les services d'installation doit être effectuée par un personnel qualifié ou les techniciens de maintenance.
3. Suivez conformément le code Electric national et les codes locaux en vigueur dans votre région.
4. Toujours éteindre toutes les sources d'alimentation avant toute opération d'entretien est effectué sur un panneau. Vérifier que l'alimentation est coupée avant de manipuler les conducteurs.
5. Le WeldingRACK WR6 est construit uniquement pour être utilisé à l'intérieur.
6. Utilisez ce produit uniquement comme prévu et à la tension indiquée(s).
7. Il y a de l'énergie (tension) à l'intérieur de la chambre à balles. Une précaution extrême doit être utilisée lors de l'entretien de cet appareil. Toujours s'assurer que les avertissements sont suivis à la lettre pour éviter des blessures ou endommager l'appareil.
8. Une fois l'installation est terminée toutes les précautions et les étiquettes d'avertissement doivent être attachées et bien visibles.
9. Cet appareil ne doit être utilisé seulement que prévue par le fabricant.
10. Ne pas utiliser ce matériel pour d'autres d'utilisation prévue.

### **CONSERVEZ CES INSTRUCTIONS**

## Product Components



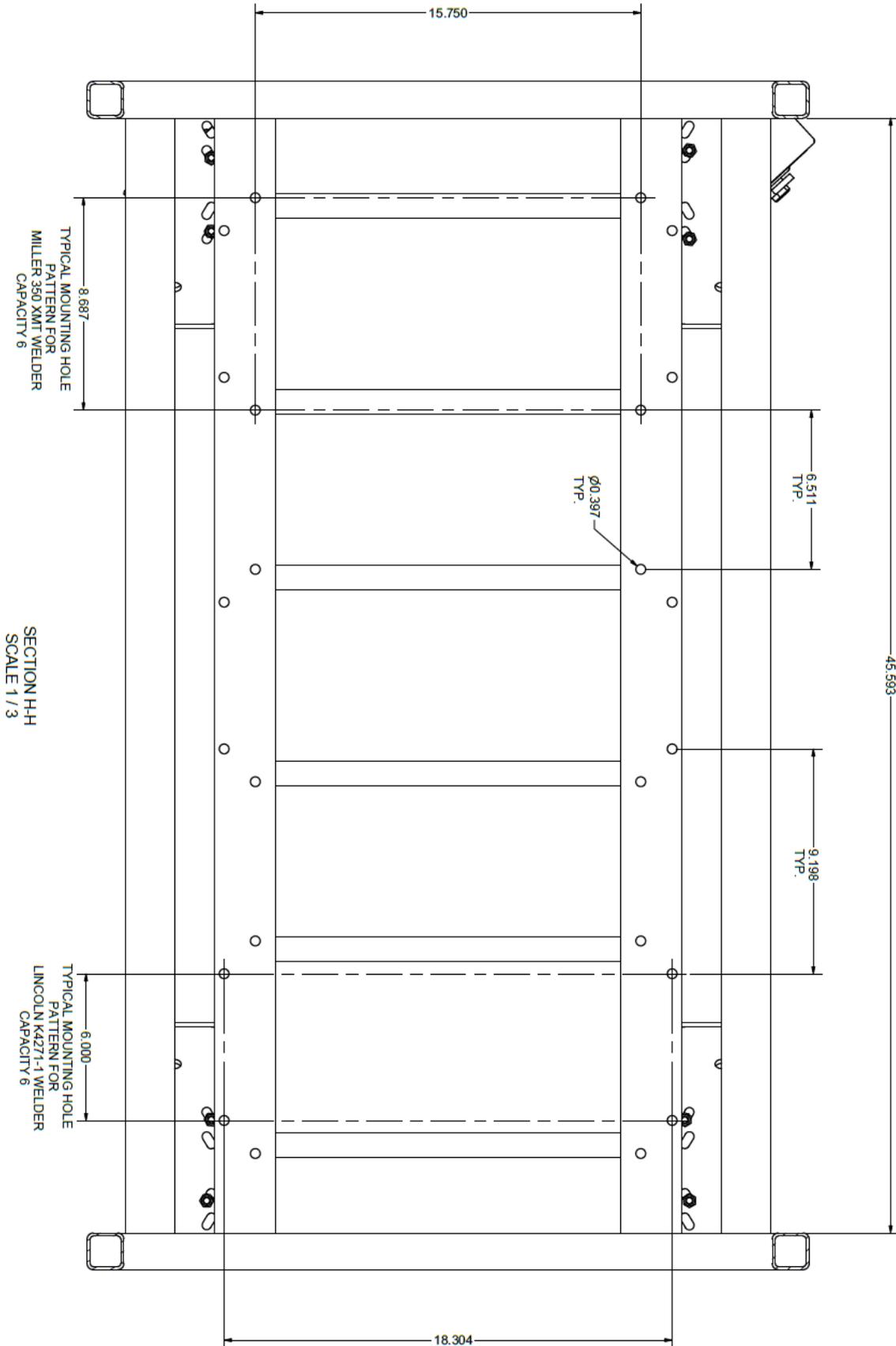
## Product Dimensions / Weight



### NOTES:

- Dimension: 65 H x 48.675 W x 29.500 D
- Unpopulated Rack Weight: 497 lbs. (approx.)
- All dimensions in inches

## Compatible Hole Pattern for Installation



## Installing Welding Units



**Safety: Turn off welding power source before inspecting or installing the units in the rack.**

- Welder packs are to be installed by qualified personnel.
- Load welder packs from the rear of the rack. Secure units to predrilled hole pattern located on the mid and lower platform shelves.
- Each unit is to be bolted to the WR6 WeldingRACK with four bolts
  - \*(Bolts are not included)

Welder Pack Mounting Pattern	
Miller 350 XMT Welder	8.687" W x 15.750" D
Lincoln K427-1 Welder	6.00" W x 18.304" D



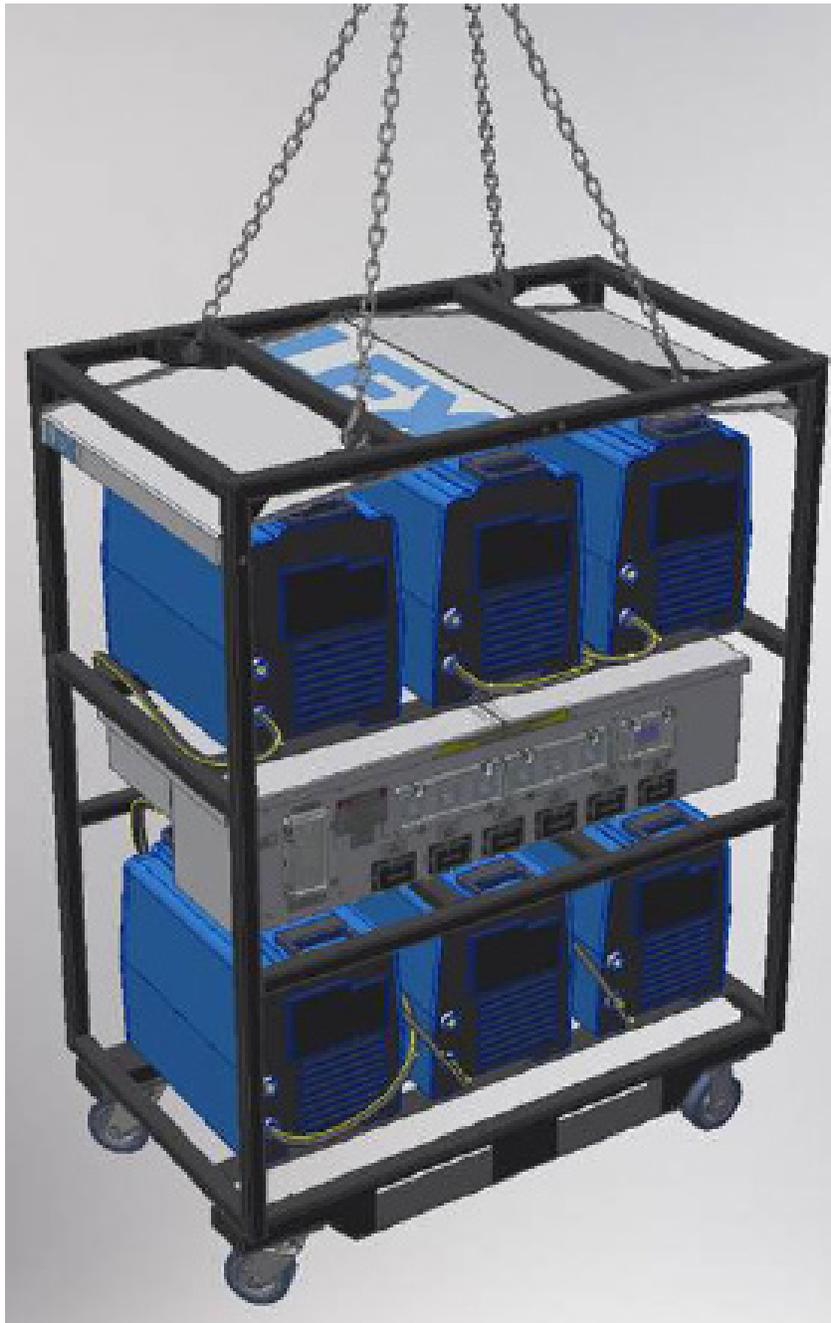
## Lifting the WeldingRACK™

### Lifting the WR6 rack using four Eyelets



Safety: Inspect lifting chains and clips before using. Ensure rack is not over maximum weight and welder packs are properly installed.

- Rack weight is approximately 497 lbs. empty
- Eyelets are designed to lift a fully loaded rack.
- Do not exceed the maximum load capacity when moving the rack using the four eyelets
- Lifting chain or wire rope of at least 72 inches (2m) is required for lifting the rack



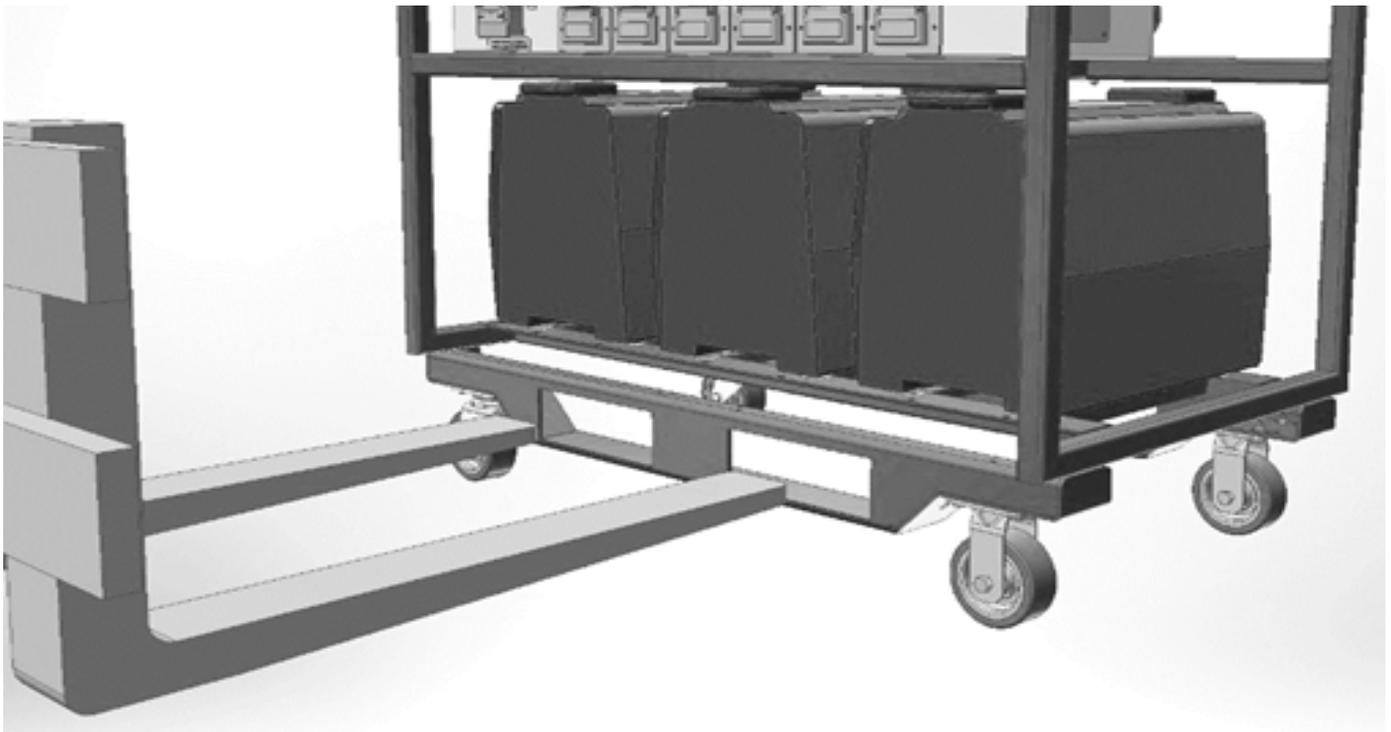
## Lifting the WeldingRACK™ (continued)

### Lifting the WR6 Using Fork Lift Pockets



Safety: Ensure rack is not over maximum weight and welder packs are properly installed.

- Rack weight is approximately 497 lbs. not populated
- Do not exceed the maximum load capacity of the fork lift when moving the rack using the fork lift pockets
- See page 5 for fork lift pocket dimensions



## Electrical Connections



**Safety: Turn OFF welding power sources by placing circuit breakers to the OFF position before making welder output connections**

### Neutral and Ground Connections

- Determine cable length and size according to welding power source owner's manual
- Cable must be able to carry combined weld output of all welding power sources using common work connections



Neutral Bar



Ground provision, one next to each caster

## Serial Number and Rating Label Location

- The serial number and rating information for this product is located on the back panel of the distribution unit
- Use rating label to determine input power requirements and/or rated output
- For future reference, write serial number in space provided on the back cover of this manual

### CAUTION - MISE EN GARDE

To reduce the risk of electric shock, ground this unit at the supply source and use only in the upright position.

All receptacles rated 125V 20A are provided with ground-fault protection for personnel. Persons who contact more than one leg of the circuit are not protected. Protection is not provided if there are defects in an extension cord or other wiring supplying the unit.

Pour réduire le risque de choc électrique, mettre cet équipement à la terre au niveau de la source d'alimentation et ne l'utiliser qu'en position verticale.

Toutes les prises ayant une capacité nominale de 125V 20A sont pourvues d'une protection avec mise à la terre pour le personnel. Les personnes qui entrent en contact avec plusieurs branches du circuit ne sont pas protégées. Aucune protection n'est fournie en cas de défauts affectant un cordon de rallonge ou un autre câble électrique alimentant l'équipement

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## Input Power Connection



### SAFETY

- Installation must meet all National and Local Codes
- Product to be installed by qualified personnel
- Disconnect and lockout/tag out input power before connecting rack to power
- Always connect green or green/yellow to supply grounding terminal first, and never to a line terminal
- See rating label on rack and check input voltage available on site

If bare input:

- Identify inline plug rated for 600VAC/100A
- Install to plug manufacturer's instructions

## Voltage Selection

- The WeldingRACK WR6 is designed to operate with a 600VAC or 480VAC input
- Voltage selector switch and main breaker are located on the front of the power distribution unit under a clear protective window panel
- Open the window panel
- With main breaker in OFF position, slide box over selector switch up toward breaker



- Rotate voltage selector switch to match source power.
- Return box to original position.
- Turn main breaker ON.



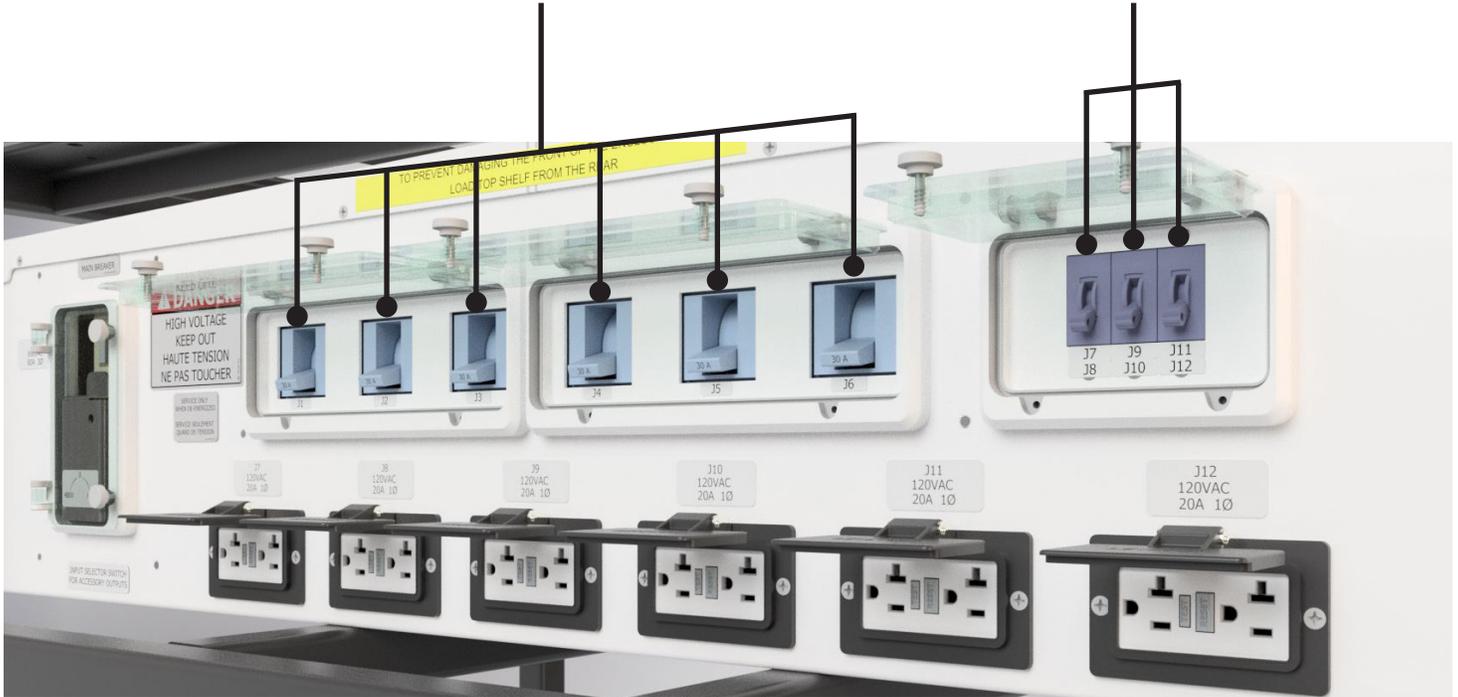
## Overload Protection - Circuit Breaker Reset



**SAFETY - Disconnect power before servicing**

(6) 30A Branch Breakers for Welding Machine Outputs

(3) 20A Branch Breakers for GFCI Duplex Receptacles



Overload protection box is located on the right facing side of the enclosure



Remove the cover plate to access the breaker and set breaker to ON position



## Troubleshooting

### 20A GFCI Duplex Receptacles:

If there is no power at the receptacles

1. Ensure that connections are in place and tight
2. Ensure that power source is live
  - a. Activate if not on
3. Ensure that the GFCI circuit breakers are '1/ON'
4. If a GFCI circuit breaker trips, identify source of short circuit or overload and correct before resetting circuit breaker
  - a. Check to see if the circuit is overloaded and reduce loads as needed
  - b. Check for short circuits in the cabling or load device and correct as needed
5. Ensure the GFCIs are set by pressing the 'RESET' button
6. If a GFCI trips, identify source of current leakage and correct before resetting the GFCI
  - a. Check to see if the circuit is overloaded and reduce loads as needed
  - b. Check for short circuits in the cabling or load device and correct as needed
7. GFCI RESET button is pushed on duplex
  - a. Branch breaker is in ON position
  - b. Main breaker is in ON position
8. Transformer Selector Switch is turned to proper voltage
9. Transformer circuit breaker is in ON position (under side panel)

GFCI Duplex Receptacle 'RESET' Button

Circuit Breakers for GFCI Duplex Receptacles



Transformer Selector Switch

Transformer Circuit Breaker



## 10. Troubleshooting (continued)

### 50A Twist Lock Receptacles:

If there is no power at the receptacles

1. Ensure that connections are in place and tight
2. Ensure that power source is live
  - a. Activate if not on
3. Ensure that the Machine Output Circuit Breakers are 'I/ON'
4. If a Machine Output Circuit Breaker trips, identify source of short circuit or overload and correct before resetting circuit breaker
  - a. Check to see if the circuit is overloaded and reduce loads as needed
  - b. Check for short circuits in the cabling or load device and correct as needed
5. Transformer Selector Switch is turned to proper voltage
6. Transformer circuit breaker is in ON position (under side panel)

50A Twistlock Receptacle



Transformer Selector Switch



Transformer Circuit Breaker



## Maintenance



SAFETY - Disconnect power before servicing

Perform the following routine operation every three months:

- Clean off WeldingRACK WR6 with a cloth to remove work site debris
- Inspect WeldingRACK WR6 for signs of damage, rust corrosion and oxidation
- Replace damaged or unreadable labels
- Clean connections at isolated terminals
- Tighten connections to isolated terminals
- Inspect input cord and device for cuts in the jacket and secure connections
- Repair or replace damaged exterior components

# WeldingRACK™ WR6

## 6-Pack Welder

### Power Distribution Station

### Installation and User Manual



## Product Specifications

Part Numbers	WR6A-7SM-FG26DZ6LD-R	WR6A-7SM-FG26FW6LD-R
Rating	80A, 600/480 VAC Primary to 208Y/120VAC Secondary, 10KVA	
Environmental Rating	TYPE 3R Rainproof	
Agency Approval	cETLus Listed	
Input	100A, HBL4100P5W Pin and Sleeve, Three Phase (H, H, H, G), 600V, 2ft Tail	
Transformer	Delta to WYE, 600/480 VAC Primary to 208Y/120VAC Secondary, 10KVA	
Primary Output	(6) HBL3769 Twist Lock, 50A, Three Phase (H, H, H, G), 600 VAC, Panel Mount	(6) AR642, 60A, Three Phase (H, H, H, G), 600 VAC, Panel Mount
Secondary Output	(6) 5-20 GFCI Weather Resistant Duplex Receptacles, Single Phase (H, N, G) 120 VAC, Panel Mount	
Main Breaker	(1) 80 Amp, Three Phase	
Primary Output Breaker	(6) 30 Amp, Three Phase	
Secondary Output Breaker	(6) 20 Amp, Single Phase	
Enclosure	PDU: Aluminum, Powder Coat White RACK: Steel, Black	
Dimensions	63" H x 46"W x 30"D	
Approximate Weight	497 lbs. (Unpopulated)	



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