POWERED YOUR WAY

Maximize your fleet performance with PosiCharge ProCore.™

posichargeprocore.com
AeroVironment (AV) is the leading provider of a broad array of EV charging solutions that touch everyone from automakers and drivers to commercial establishments and workplaces. Our award-winning team of engineers, manufacturers, quality professionals, and customer service representatives come together to support solutions that are the foundation of the EV movement.

This overview will provide you with the basics of EV charging and highlight things you should consider when installation EV charging stations for your commercial establishment or workplace.

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**Why Go Electric?**

**COMMON MISCONCEPTIONS ABOUT ELECTRIC FLEETS**

1. Electric trucks are too expensive.  
   **FACT**  
   Electric lift trucks cost less to own over their lifetime than comparable ICE lift trucks. Lower operating costs, reduced maintenance and improved safety make electric lift trucks a better investment.

2. Electric fleets require space-wasting battery-changing rooms.  
   **FACT**  
   PosiCharge fast chargers eliminate the need for battery-change rooms. Batteries are charged during scheduled breaks and shift changes without ever leaving the vehicle.

3. Electric trucks aren’t as powerful.  
   **FACT**  
   Modern electric forklifts perform side-by-side with their ICE counterparts, while being safer and less expensive to operate under most circumstances.

4. Fast charging harms batteries.  
   **FACT**  
   With our unique algorithms, battery monitoring, and heat management technology, our PosiCharge fast chargers can actually extend the life of your batteries by almost 40%, and reduce your battery inventory by 50%.
THE POSICHARGE™ Advantage

EXPERIENCE AND EXPERTISE

- Pioneered fast charging technology
- World’s largest supplier of fast charging systems
- More than 25,000 chargers at over 750 facilities charging over 25,000 vehicles
- State of the art battery research center

RELIABILITY

- Proven to extend battery life and surpass battery warranties

BREADTH OF APPLICATIONS

- Universal battery charging: any battery chemistry, brand, size, voltage
- Only charger rated for sub-zero applications
- Only solution with automatic battery watering
- Only thermal management solution for heavy-use vehicles
Savings Summary

POSICHARGE vs. Battery Changing

01 Reduce energy consumption by 18% vs. standard practices

02 Return up to 70% in operating cost and capital expenditure savings per facility

03 Deliver 100% material handling operator uptime

04 Eliminate $$$$ in battery room infrastructure and personnel costs per facility

- Eliminate need for special ventilation, eye wash and other PPE
- Eliminate need for floor drains and acid neutralization
05 Reduce electric forklift battery inventory by 50%
  - Reduce battery maintenance costs by more than half

06 Improve facility velocities without expanding facility footprint
  - Streamline workflow
  - No waiting at the battery room

07 Improve working conditions by dramatically reducing:
  - Worker injuries related to battery handling
  - Accidents related to cross-plant traffic
  - Hazardous material spillage

08 Show your company’s green leadership and help achieve corporate social responsibility goals:
  - Reducing one facility’s annual CO2 footprint
  - Reducing each facility’s lead, steel, and sulfuric acid consumption
The PosiCharge ProCore™ Series is a premium intelligent charging family that supports and charges any material handling battery - regardless of type, brand, chemistry, voltage or size. With power ranges from 5kW to 30kW, multi-voltage flexibility and value-added options, ProCore is ideal for your entire fleet.
INDUSTRY’S FIRST FORKLIFT BATTERY CHARGER
to enable charger configuration and management via smartphone app
# SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>5 kW</th>
<th>10kW</th>
<th>15kW</th>
<th>20kW</th>
<th>30kW w/single cable</th>
<th>30kW w/dual cable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER RATING</strong></td>
<td>5 kW</td>
<td>10kW</td>
<td>15kW</td>
<td>20kW</td>
<td>30 kW w/single cable</td>
<td>30kW w/dual cable</td>
</tr>
<tr>
<td><strong>MAX OUTPUT CURRENT 24/36/48V</strong></td>
<td>160/111/83</td>
<td>200/200/167</td>
<td>320/320/250</td>
<td>400/400/320</td>
<td>400/400/400</td>
<td>500/500/500</td>
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<tr>
<td><strong>MAX OUTPUT CURRENT 48/72/80V</strong></td>
<td>N/A</td>
<td>160/111/100</td>
<td>250/167/150</td>
<td>320/222/200</td>
<td>400/333/300</td>
<td>N/A</td>
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<tr>
<td><strong>CIRCUIT BREAKER RATING 480VAC</strong></td>
<td>10A</td>
<td>15A</td>
<td>25A</td>
<td>40A</td>
<td>50A</td>
<td>50A</td>
</tr>
<tr>
<td><strong>IDLE POWER</strong></td>
<td>&lt;10W</td>
<td>&lt;10W</td>
<td>&lt;10W</td>
<td>&lt;10W</td>
<td>&lt;10W</td>
<td>&lt;10W</td>
</tr>
<tr>
<td><strong>DIMENSIONS, H x W x D</strong></td>
<td>31.5” x 20” x 10.5”</td>
<td>31.5” x 20” x 10.5”</td>
<td>31.5” x 20” x 15.2”</td>
<td>31.5” x 20” x 15.2”</td>
<td>31.5” x 20” x 20”</td>
<td>31.5” x 20” x 20”</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>86 lbs</td>
<td>91 lbs</td>
<td>144 lbs</td>
<td>144 lbs</td>
<td>190 lbs</td>
<td>196 lbs</td>
</tr>
<tr>
<td><strong>INPUT VOLTAGE SKUs FOR NOMINAL 380V, 400V, 415V, 440V, 480V (50/60 Hz)</strong></td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>
HI FREQUENCY POWERSTAGE
for a more efficient, smaller, lighter charger

MULTI VOLTAGE / MULTI-AH CAPABILITIES
allow different batteries to charge on the same charger

BMID, NON BMID AND CAN COMPATIBILITY
gives basic or advanced control options

BMID CONTROLLED EQ
allows battery to go to any charger and get a complete EQ every week

ADVANCED CONNECT RX™
provides unparalleled safety by detecting potential connector and cable-related issues

MODULAR POWERSTAGES
for quick upgrade, redundancy, serviceability, and repair

LOW CURRENT RIPPLE
prolongs battery life

CHARGER PERFORMANCE MONITORING
to track charger usage

COLORFUL DIGITAL INTERFACE
makes it easy to read and understand charger operations

FUTURE PROOF
able to charge new battery chemistries such as lithium
ProCore is easy to use and provides extreme flexibility with multiple customization options. A small, lightweight, powerful, highly efficient charger that takes up minimal floor space, ProCore requires no specific training to mount, install and update.

The Most Efficient Chargers for Your Forklift Fleet.
HIGH PEAK EFFICIENCY & LOW OVERCHARGE FACTOR

make ProCore the most efficient charger available with the lowest monthly utility costs.

Increased battery life & efficiency means more money saved.

ProCore protects and increases the lifespan of your batteries.
Mobile Access & Control

Our convenient digital app means that you can easily connect and program your ProCore chargers without messing around with bulky laptops or data cables.

Set up new units, program, troubleshoot, make changes to your fleet – and more – all from your iOS or Android smartphone.

Compatible with iPhone 4S or newer, iPod 5th Gen or later, iPad 2nd Gen or later, or Android device 4.3 or later. Search for the PosiCharge ProCore™ app in your iOS or Android App Store.
With ProCore, you’ve got options. ProCore’s modular powerstages bring the ultimate in flexibility to your operation.

Have a mixed fleet or a large operation with different types of forklifts? ProCore’s multivoltage capabilities are here to give you choices – and simplify your life. It doesn’t matter what type of battery you have - different forklifts with different batteries can charge on the same charger.
PROCORE 10KW WALL-MOUNTED & 20KW PEDESTAL-MOUNTED UNITS
Advanced Connect Rx™ enables industry-leading operational safety for charging electric forklifts by providing early warning of high connector temperatures with an innovative dual set point sensor for warning and fault levels.

Everyday usage causes wear and tear on charging cable connectors, from connecting and disconnecting the charging cables to repeated drops. Often the first sign of a problem is an operator complaint of high connector temperatures, or a complete failure in the charging connection.

With Advanced Connect Rx™ you’re given a warning before these problems arise and potential damage, or lost productivity, occurs.

As soon as there is an abnormality detected it immediately alerts users to possible charger and battery output connector problems that could potentially result in damage to the forklifts or facilities, and injuries to employees. This gives users and facilities managers the ability to address problems before they become costly or potentially hazardous.

Advanced Connect Rx™ is a standard feature on the PosiCharge™ ProCore™, and can be enhanced with an optional battery cable connector monitor that adds an additional layer of protection. Combined with our anti-arc technology, battery thermal management and sophisticated charging algorithms, Advanced Connect Rx™ gives you unparalleled operational safety.
Advanced Connect Rx™ is a standard feature on PosiCharge ProCore™

Provides early warning of high connector temperatures with an innovative dual set point sensor for warning and fault levels

Enables users to address overheating connectors before problems arise and potential damage occurs

UNPARALLELED SAFETY
It’s simple: prolonging battery life means saving money. ProCore protects your battery investments – and increases lifespan by enabling the battery and charger to ‘speak’ to each other.

It’s also programmable. You can run ProCore in blockout or power limit mode – and operate chargers at reduced (or zero) power levels to manage peak utility demand periods.
ADDITIONAL FEATURES

- CERTIFIED to the highest industry product safety standards
- LIGHTER WEIGHT for easier installation and additional mounting options
- MULTI-INPUT BREAKER SELECTION offers installation flexibility and upgrade capability
- COMPLIANT WITH CEC STANDARDS by exceeding the minimum efficiency and idle power consumption set by the California Energy Commission
- POWER MANAGEMENT TOOL enables full programmability to plan for peak utility demand periods
- CAN CAPABILITY enables chargers to talk to advanced batteries
- PLC CAPABILITY enables chargers to talk to AGVs and mobile robots
- OFF THE FLOOR MOUNTING saves floor space and gives multiple mounting options
- REAL TIME BATTERY TEMPERATURE / VOLTAGE MONITORING AND COMPENSATION enable precise charge control and monitoring of batteries for fastest and safest charging
- STACKLIGHT OPTIONS for visual notifications of the battery / charger status
- AUTOWATER CONTROL OPTIONS for optimal battery watering during the equalization cycle
CONTACT US

• to REQUEST A QUOTE
• to find out if PROCORE is the right fit for your operation, or
• to see if you qualify for our LP TO ELECTRIC LIFT TRUCK CONVERSION Consulting Services

VISIT
www.posicharge.com

Customer Service: 1.866.767.4242