

## Powerful Solutions Partner

Micropower Group is a complete system supplier of industrial Lithium-Ion batteries, battery chargers and power supplies. With own production and R&D, we take responsibilities for the whole chain where we develop, design, manufacture and supply battery and battery charging products and systems to customers and distributors worldwide.

FAST / OPPORTUNITY CHARGING

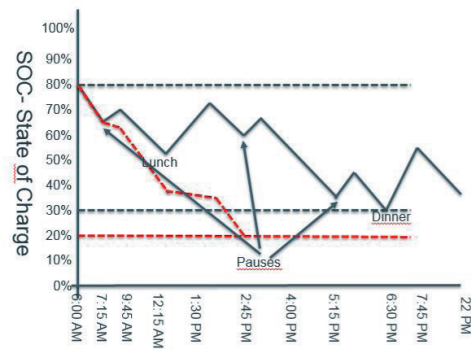
# FAST CHARGING FOR MATERIAL HANDLING

**MICROPOWER GROUP**<sup>TM</sup>  
POWERFUL SOLUTIONS PARTNER

Micropower Group AB  
Idavägen 1  
SE-352 46 Växjö, Sweden

Phone: +46 (0)470 727 400  
sales@micropower.se  
www.micropower-group.com

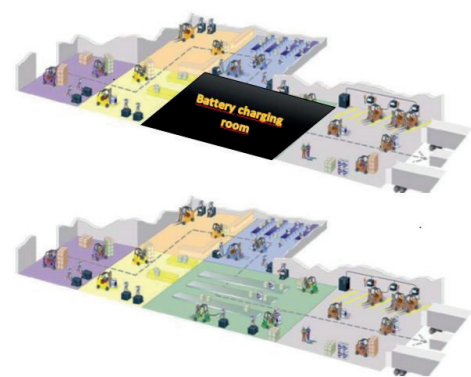
# 75 MINUTES TO CHARGE YOUR BATTERY TO 80%



Typical 2-shift operation



Access 400 chargers built up of Access 100 modules, 80 V 400 A, batteries 930 Ah



With the elimination of battery changing rooms, valuable plant area is released for more productive activity

The battery changing procedure can be eliminated with the use of the Micropower's Access chargers. Between 30 and 80% (SOC) state of charge, counted as percent of total battery capacity in Ah – the battery is ready to receive a considerable current, thanks to limited voltage and temperature in this range.

With the elimination of battery changing rooms, valuable plant area is released for more productive activity.

The charging curves are of special design for:

- 2-shift-operation with programmed equalization charging during the "third shift"
- 3-shift-operation with equalization charging programmed once a week, typically Sunday

In order to prevent uncontrolled temperature increase in the battery, the use of an Access Battery Charger is mandatory for Fast/Opportunity Charge.

The Access BMU continuously senses the temperature in the battery and communicates increased temperature over radio to the Access charger, with the instruction to either reduce or shut the current while cooling down.

### Is your operation suitable for Fast/Opportunity Charging?

Connect an Access Battery Logging Unit to your vehicle for, say a week. It will map the vehicle's discharge profile and total available charging opportunity time. Measured current integrated over time gives you the total required Ah to be recovered by battery charging.



The GET system is compatible with all Micropower chargers.



## ACCESS 50

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3-phase  
24V 80-130A  
36V 60-100A  
48V 60-80A

## ACCESS 100

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3-phase  
24V 150-200A  
36V 130-150A  
48V 100-165A  
80V 60-100A

## ACCESS 200

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3-phase  
24V 300-400A  
36V 300A  
48V 200-330A  
80V 120-200A

## ACCESS 400

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Module assemblies of Access 100 units  
Example: 80V 400A

For more info about other Micropower's chargers, visit [micropower-group.com](http://micropower-group.com)