

## ACCESS OPTIONS AND ACCESSORIES

Make sure you design your battery charging procedure as efficient as possible



### ACCESS BMU

The Access BMU Battery Monitoring Unit is mounted onto the battery, normally over its entire lifetime. It measures current, voltage, voltage balance between cell groups, temperature, electrolyte level and indicate State of Charge. The Access BMU communicates with any other Access compatible unit via radio. It can for example be set to tell a specific charger which charging parameters to use.

The temperature monitoring is a mandatory input for fast and opportunity charging. The BMU creates statistical information, that are accessible from anywhere using the GET Cloud or on site through your smartphone or PC.

### ACCESS BLU

The Access BLU Battery Logging Unit is easily connected to your battery and will measure both charging and discharging by switching between vehicle and charger. The unit communicates with your Access Service Tool and can be set on History log, Event log, Instant log or Momentary value display on computer screen. If the vehicle is on battery replacement operation, the Access BLU will continuously be connected to the vehicle and switch the other end between the batteries.

### ACCESS SERVICE TOOL

Access Service Tool is your link between any compatible Access component and your laptop. Linked on radio, the Access Service Tool downloads data from BMUs, BLUs and chargers. It generates relevant individual or fleet reports. Upgrade and upload all information through our the GET Cloud and connect from any mobile or computer at any time.

#### STANDS

Our stands fit all Micropower chargers. The stands are available in two models, one bench and one floor stand.

#### CAN-BUS

The CAN-bus communication makes the charger very versatile and adds the possibility to communicate with other systems also using CAN-bus.

#### I/O-CARD

I/O cards can be equipped with up to 5 individual relays and can be used to control various functions such as an external LED-indicator, stacking beacon for charger status and remote start.

#### AIR PUMPS

An alternative to ionic mixing where air bubbles are used to mix the battery acid. The air pump is fully integrated in the charger.

## GLOBAL ACTOR IN BATTERY CHARGING SOLUTIONS

Micropower Group is an independent producer of battery chargers, lithium ion batteries and systems for industrial use, with head office in Växjö, Sweden. Micropower is a global, leading player on material handling battery charging.



Micropower ED Marketing AB Phone: +46 (0)470 727 400  
ldavägen 1 sales@micropower.se  
SE-352 46 Växjö, Sweden www.micropower-group.se

Powerfinn OY  
Joensuunkatu 7D  
FIN-24100 Salo, Finland  
Phone: +358-(0)2-777 290  
Fax: +358-(0)2-777 2918  
info@powerfinn.fi  
www.powerfinn.fi

Micropower GmbH  
Sophie-Charlotten- Straße 92  
140 59 Berlin, Germany  
Phone: +49 (0)30 894 069 90  
info@micropower-group.de  
www.micropower-group.com

Micropower Shanghai Ltd  
Rm101, Build3  
No1501, Jinsui Road,  
Pudong New District  
Shanghai, China  
Phone: +86 (0)21 5093 8660,  
+86 (0)21 5093 8670  
Fax: +86 (0)21 5093 8680  
info-china@micropower.se  
www.micropower-group.cn

Ecotec Ltd LLC  
150 Marybill Drive  
Troy, OH 45373, USA  
Phone: +1 (0) 917 628 1836  
Fax: +1 (0) 516 485 0344  
tom.tag@ecotecbatchcharger.com  
www.ecotecbatchcharger.com



**FOR FULL MANAGEMENT CONTROL OF YOUR TRACTION BATTERY FLEET**

**ACCESS **  
MICROPOWER GROUP



# CHARGERS FOR EVERY NEED

– READY TO NETWORK AND REPORT

**ACCESS 30**  
MICROPOWER GROUP



**ACCESS 32**  
MICROPOWER GROUP



**ACCESS 50**  
MICROPOWER GROUP



**ACCESS 80**  
MICROPOWER GROUP



**ACCESS 100**  
MICROPOWER GROUP



**ACCESS 130**  
MICROPOWER GROUP



**ACCESS 200**  
MICROPOWER GROUP



**ACCESS 260**  
MICROPOWER GROUP



**ACCESS 400**  
MICROPOWER GROUP



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

### ACCESS chargers

- High frequency technology
- BBC Best Battery Choice software built-in
- High efficiency
- Algorithms included for most batteries and needs
- Default charging curve with ionic mixing
- Suitable for AGV and fast/opportunity charging, see separate brochures
- Wireless communication
- Available for various mains voltages
- DPL Dynamic Power Limitation function built-in to monitor and cut power peaks
- Compatible with the GET system

\* IP54 on data plate requires fixed primary cable

## Optimize your battery and charger fleet



### Batteries always fully charged with BBC

Create a battery exchange system using the Micropower Access chargers. The chargers interact with each other to determine which battery is the most suitable pick at the moment. Micropower's Best Battery Charge help you get the most out of your batteries.

### Get Ready

GET let you handle installation, service and support of your battery and charger fleets in the most efficient, simple and intelligent way. Being in control has never been easier. The GET system collects data from all your units, analysis it and help you improve your operations and save money. Create a customized dashboard, showing you what you really want to know and let the system send you notifications if anything deviates from your targets.

Real time data transfer, remote service functions and intelligent data analysis customized for you. The GET system continuously uploads data to the cloud, letting you access it from anywhere, through your cell phone, laptop or tablet.

### Which ACCESS charger size do you need?

Check out our webpage charger guide. You will need mains voltage, battery voltage, battery capacity in Ah, type of battery, and available charging time.

### PRODUCT PRIMARY VOLTAGE VAC

	1x200-240	3x200-240	3x380-415	3x440	3x480	3x600
<b>ACCESS 30</b>	24V/40-100A 36V/22-53A 48V/20-60A					
<b>ACCESS 32</b>	24V/60-120A 36V/80A 48V/40-60A					
<b>ACCESS 50</b>		24V/80-130A 36V/60-105A 48V/60-80A	24V/80-130A 36V/60-105A 48V/60-80A	24V/80-130A 36V/60-105A 48V/60-80A	24V/80-130A 36V/60-105A 48V/60-80A	
<b>ACCESS 80</b>			36V/130A 48V/100-130A 80V/60-80A	36V/130A 48V/100-130A 80V/60-80A		
<b>ACCESS 100</b>		24V/150-170A 36V/130-170A 48V/100-130A 80V/80A	24V/150-200A 36V/130-200A 48V/100-165A 80V/80-100A	24V/150A 36V/130-200A 48V/100-165A 80V/60-100A	24V/170A 36V/130-220A 48V/100-165 80V/80-100A	36V/220A 48V/165A 80V/100A
<b>ACCESS 130</b>		24V/300A 36V/300A 48V/220A 80V/130A 120V/90A	24V/300A 36V/300A 48V/220A 80V/130A 120V/90A	36V/300A 48V/220A 80V/130A 120V/90A		
<b>ACCESS 200</b>		24V/300A 36V/300-340A 48V/200-260A 80V/120-160A	24V/300-400A 36V/300A 48V/200-330A 80V/120-200A			
<b>ACCESS 260</b>		36V/300-340A 48V/200-260A 80V/120-160A 80V/260A	36V/300A 48V/200-330A 80V/120-200A 80V/260A 120V/180A	36V/400A 48V/200-260A 80V/160-200A 80V/260A 120V/180A	36V/340-420A 48V/260-330A 80V/160-200A 120V/180A	36V/420A 48V/330A 80V/200A
<b>ACCESS 400</b>			36V/400-600A 48V/330-660A 80V/200-600A 120V/180-720A	36V/400-600A 48V/330-660A 80V/200-600A 120V/180-720A		