



DYNAMIC POWER LIMITATION

### 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 responsibility for the whole chain where we develop, design and manufacture and supply battery and battery charging products and systems to customers and distributors worldwide.



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

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

# DYNAMIC POWER LIMITATION CUTS POWER PEAKS & REDUCES COSTS



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

# DYNAMIC POWER LIMITATION

– eliminates power peaks and reduces costs



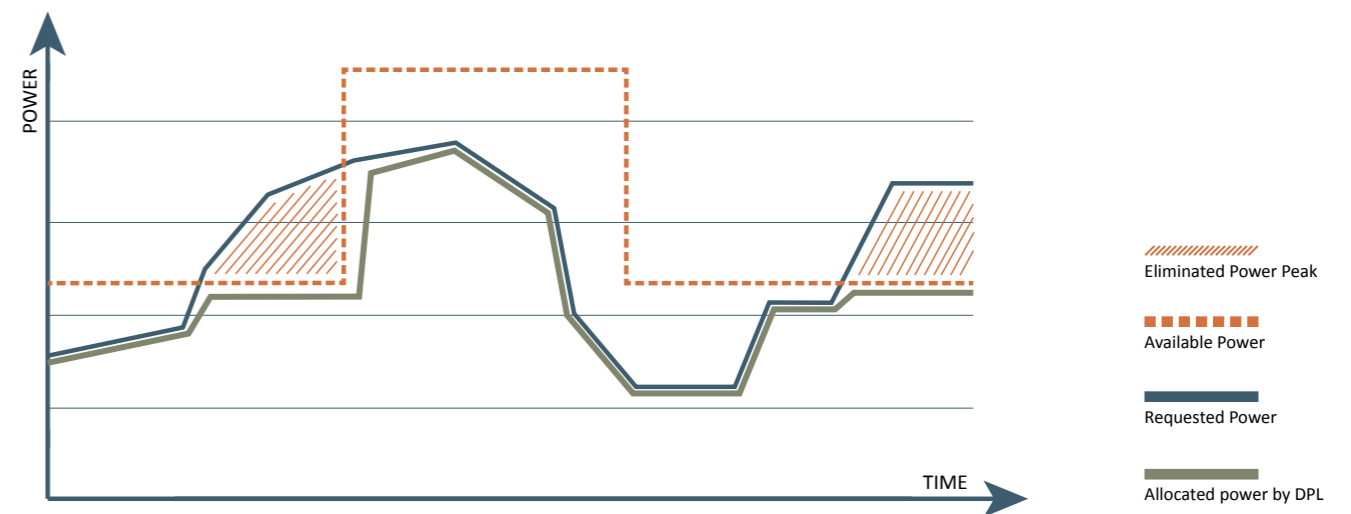
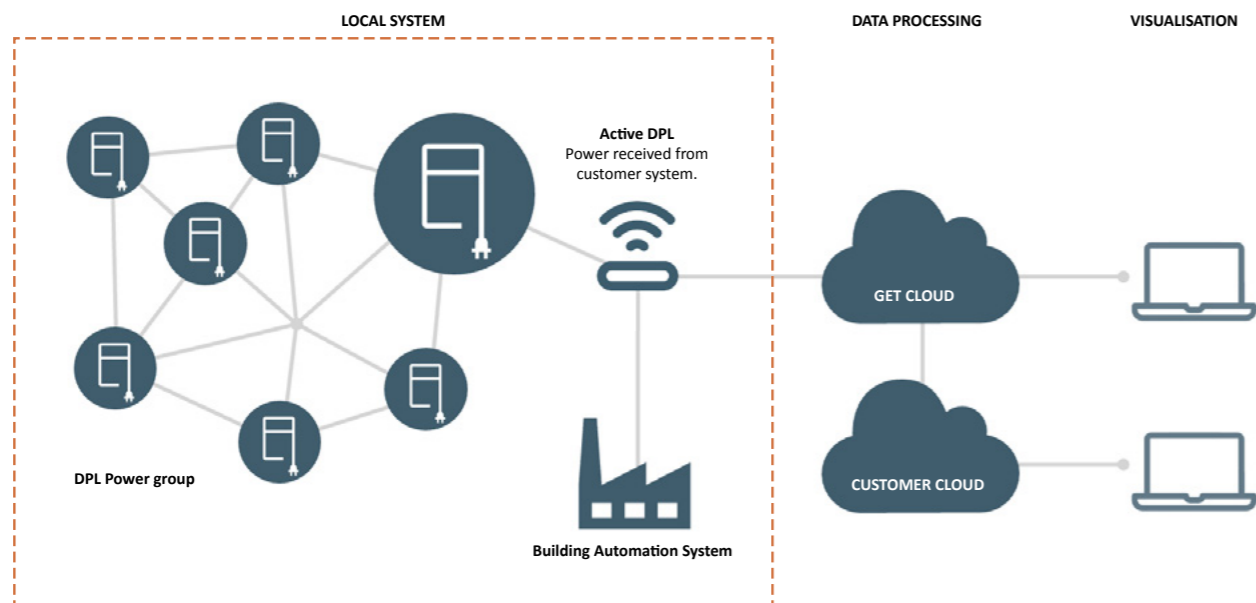
Dynamic Power Limitation (DPL) is an automatic function included in our Access and Lion battery chargers. DPL eliminates high power peaks and expensive electrical bills by ensuring that a defined group of battery chargers doesn't exceed the power available from the energy grid. It also eliminates the risk for high power peaks caused by simultaneous fast charging and opportunity charging. Dynamic Power Limitation gives you full power when available and shared power when needed – without any operator input.

## Keep Fast Charging Your Batteries

Lion-batteries have made it possible to charge very fast and maximize up time in daily operations by going from battery exchange systems to opportunity charging during coffee breaks and lunch hours. When a lot of batteries are being charged at the same time, the risk for power peaks increases. There is also a risk for power peaks in 2-shift operations when all electrical vehicles are charged simultaneously during the night. With DPL those scenarios and more can be handled, eliminating the risk of expensive electrical bills.

## Integration

In many operations, battery chargers are one of the biggest power consumers and often there are other top consumers of power. In these cases, making sure the power is available where it is needed the most is critical. If we also add to the equation factors such as solar panels, energy prices and availability, the picture becomes more complex. Therefore Micropower has opened up APIs to integrate DPL as one power consumer in a bigger system. We call it Active DPL.



## How does it work?

DPL works through ensuring that a defined group of battery chargers never exceed the allocated power. DPL gives full power when available and shared power when needed, without any operator input. The power is distributed within the DPL group based on a smart algorithm, making sure the power is available where it is needed the most. As all Micropower products, DPL is very easy to install. Activate the function, set maximum power and let the chargers form a wireless network. No long installation times or wiring needed. If you prefer to control the power allocation from an external source simply integrate with the available API and build your own, tailor-made system. The DPL System is constantly evolving, and we put a lot of focus in building the best and most intuitive features on the market. Contact your Micropower Sales representative for more information.

- Decide the power groups and activate DPL on the chargers. One group can consist of up to 32 chargers.
- Set allocated power for the group and, if needed, the priority for specific chargers.
- The wireless DPL group is automatically configured and ready to be used. No more risk for power peaks.