CIRCONTROL
Mobility & eMobility

Dynamic Load Management

Make simultaneous EV charging easier, faster and cheaper

Application

Dynamic Load Management (DLM) is a local software-based solution designed to autonomously optimise the available power of an installation when several EVs are charging simultaneously.

Concept Design

DLM dynamically adjusts the charging power of each charger in the most efficient way, balancing the available power among all the EVs connected and even pausing charging operations when necessary. It also allows the installation of more charging stations without the need of increasing the contracted power.

Product highlights

- **Power optimisation:** Optimise the charge of the EV by automatically adapting to the maximum available power of the installation.
- **Control the limits:** Contracted power at the installation is never exceeded thanks to its automatic power regulation. This impedes extra costs, grid overload or even blackout situations by overconsumption.
- **Remote monitoring:** Remotely monitor all installation's power consumption installation in real time.
- **OCPP ready:** Chargers can be controlled by a backoffice system and DLM simultaneously.
- **Local power management:** DLM is allocated at the same place where charge points are installed, easing any maintenance service.
- **Offline operation:** Whenever there's a failure in network communication DLM allows to keep charging, saving the information until reconnection occurs.
- **Building monitoring kit (optional):** Optional DLM kit that measures the available power of the installation and optimises EV charging process.
- **EV priority chargers:** Prioritize one or several EV chargers depending on your needs.
- **Grid Demand for DLM (optional):** Optional DLM kit used to temporally decrease or completely block an EV charge in real time from an external device. It allows control DLM and the specific consumption of the chargers in real time and, when connected to a smart device, it allows to remotely control the energy supply via Internet.

Dynamic Load Management

Model Specifications

Model	Charge Points supported*	CPU	Dimensions (D x W x H)	Weight
DLM 5	5	Mini PC	140 x 190 x 36 mm	1,2 kg
DLM - 5e	5	Embedded PC	144,8 x 198 x 42 mm	1kg
DLM 15	15	Mini PC	140 x 190 x 36 mm	1,2 kg
DLM - 15e	15	Embedded PC	173,8 x 240 x 60 mm	2 kg
DLM 30	30	Mini PC	140 x 190 x 36 mm	1,2 kg
DLM - 30e	30	Embedded PC	173,8 x 240 x 60 mm	2 kg
DLM 45/60	45;60	Rack Server	495 x 434 x 42,8 mm	8,8 kg

**Considering two sockets per charge point.*

Optional Building Monitoring Kit

Model	Max Current	Max. Flat Bed	Cable Section**	Split Core	Connectivity
BMK 125+	125 A	-	25 mm^2	✓	Ethernet
BMK 250+	250 A	-	70 mm^2	✓	Ethernet
BMK 400+	400 A	-	150 mm^2	✓	Ethernet
BMK 800+	800 A	50x80 mm	-	✓	Ethernet
BMK 1000+	1000 A	60x80 mm	-	✓	Ethernet
BMK BASIC*	-	-	-	✗	Ethernet

They all include the power analyser, the Ethernet converter and the three single-phase current transformer.
**BMK basic: current transformers are not included.*
*** Recommended cable section.*

Optional Grid Demand

Necessary Equipment	Supply	Attachment	Connectivity
GD-DLM	230 VAC	DIN rail (6 steps)	Ethernet

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