

Automated Load Balancing

Optimise and Future-Proof Your EV Charging Operations

Load Balancing enables EV system administrators to easily reduce and cap total EV charging load. Our smart charging software optimises existing systems, keeps demand charges in check, and lets you expand EV fleets without the need for expensive infrastructure upgrades.

Why Load Balancing?

Load balancing helps businesses save on both EV charging infrastructure and operating expenses (see reverse for details).

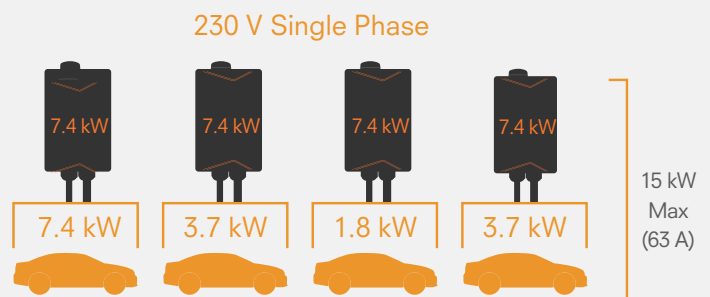
Who is Load Balancing for?

Apartment buildings, offices, shopping malls, universities, event venues, car parks — any commercial or public organisation interested in optimising EV charging.

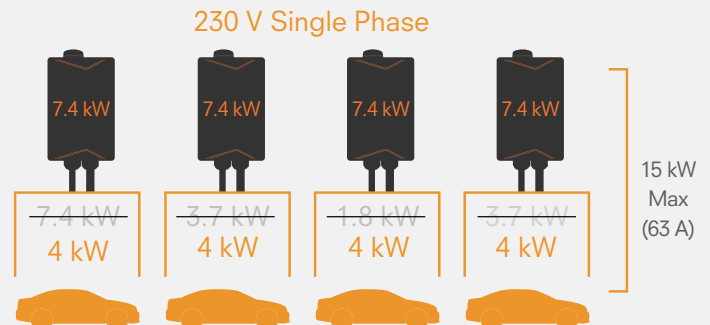
Does Load Balancing Adhere to Codes and Standards?

JuiceNet Enterprise load balancing functionality follows IEC 60364-1, which allows Automated Load Balancing via software.

How Does It Work?



Without load balancing, all four cars charge to individual car acceptance rates, making it impossible to control and cap EV charging loads.



With load balancing, the maximum load is set at 15 kW. All four cars charge below their individual acceptance rates, making it possible to limit the overall consumption and manage demand.

For Three Phase installations, or specific use case examples for your EV charging infrastructure, please contact us for a consultation.

Automated Load Balancing

Reduce Your Energy Costs



Save on Capital Expense

Often, installing more EV charging stations requires expensive electrical infrastructure work, such as electric service or electrical panel upgrades. Load balancing leverages existing infrastructure and helps reduce upfront costs by utilising software, not hardware, to manage EV loads.

Save on Operating Expenses

JuiceNet's load balancing optimises operating expenses in two ways:

1 Demand Charge Management

Electric companies often levy demand charges based on a customer's peak energy use. With load balancing, you can cap the energy you use at a given time in order to limit what you pay in demand charges.

2 Reduce Overall kWh Consumption

By enabling you to limit the total amount of electricity your chargers draw, load balancing reduces your energy bills simply by lowering your overall consumption.

Electrical Infrastructure Costs for 4 EV Chargers

Installation Component	With Load Balancing	No Load Balancing*
Breaker	€50	€200
Conduit	€20	€1,160
Wire	€1,400	€8,320
Junction Box	€20	€12
Labor	€800	€2,500
TOTAL	€2,290	€12,192

*Costs are estimated based on average quotes from electricians and installers. Prices will vary.

Consumption Limited by Automated Load Balancing

