Adetel Group

Operational modes

Energy saving
Voltage stabilization

Economical advantages

Reduction of energy consumption
Cost saving
Ultra long lifetime supercapacitor

Modular advantages

Storage modularity
Evolving possibilities
Availability

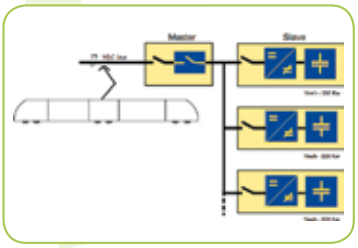
Neo Green

Ground Regenerative Electricity for Economic Network Power

Specifications

Input voltage	750VDC according to EN 50163
Available energy	0,66 to 4 kWh (1kWh/330kW bay)
Maximum energy saving per hour	35 to 200 kWh/h
Peak power	330kW to 1,3 MW
Ambient temperature	-20 to +40 °C
Humidity	Lower than 92%
Internal safety	Isolating switch, High Speed Circuit Breaker
External communication	Ethernet 100 MbT
Auxiliary power	400VAC 3ph+N / 48Vdc (in standard)

Dimensions Master	880 x 980 x 2250mm
Dimensions Slave	840 x 2000 x 2100mm per unit
Weight Master	< 950kg (depending of the configuration)
Weight Slave	< 1520kg per unit



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NeoGreen

Ground Regenerative Electricity for Economic Network Power

Scarcity of natural resources, energy conservation, financial efficiency and smooth operations have become crucial factors for any modern urban transport operator.

Based on the latest supercapacitor management technology, Adetel now offers NeoGreen, a highly efficient energy storage and conservation system, designed to maximize operational performance and smoothen operation for the Urban Transport operators.

Storing the surplus braking energy generated by the vehicles, NeoGreen feeds back the traction system in selected modes, optimized according to the operational conditions.

With up to 40% energy efficiency improvement, the system is easy to retrofit on an operational system with no traffic disruption.

Operating features

→ **Dual operational modes:**

Energy Saving: stores electrical braking energy regenerated by several vehicles on a same line, energy is fed back to the line when vehicles accelerates.

Voltage stabilization: raises up line voltage if voltage falls down to a defined level so that no vehicle tripping occur due to low line voltage.

→ Energy consumption can be reduced up to 40%

→ Number of charge/discharge cycles very high (millions) due to supercapacitor technology ensures a long lifetime of the equipment

→ *Storage modularity by autonomous storage branches:* every branch includes its own storage, conversion, monitoring and control.

→ *Evolving possibilities:* basic system installed can be easily extended by optional bays of 0,3 MW peak and 1 kWh energy to fit to updated operation

→ *Availability:* autonomy of every branch allows the system to remain operational in case of one branch faulty.

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