



Uptimax New Generation

Maintenance-free solution for backup power applications



Uptimax New Generation

- Ideal backup power solution for demanding industrial installations in oil & gaz, utility and manufacturing industries.
- Optimum TCO (Total Cost of Ownership)



Uptimax New Generation

Wide choice of capacity and performance

- **UP1 L** Energy range
 - > 15 to 1700 Ah
 - > For low rate discharges for long periods between 1 and 100 h.

- **UP1 M** Medium power range
 - > 8 to 1330 Ah
 - > For mixed loads with varying current between 30 min and 3 h

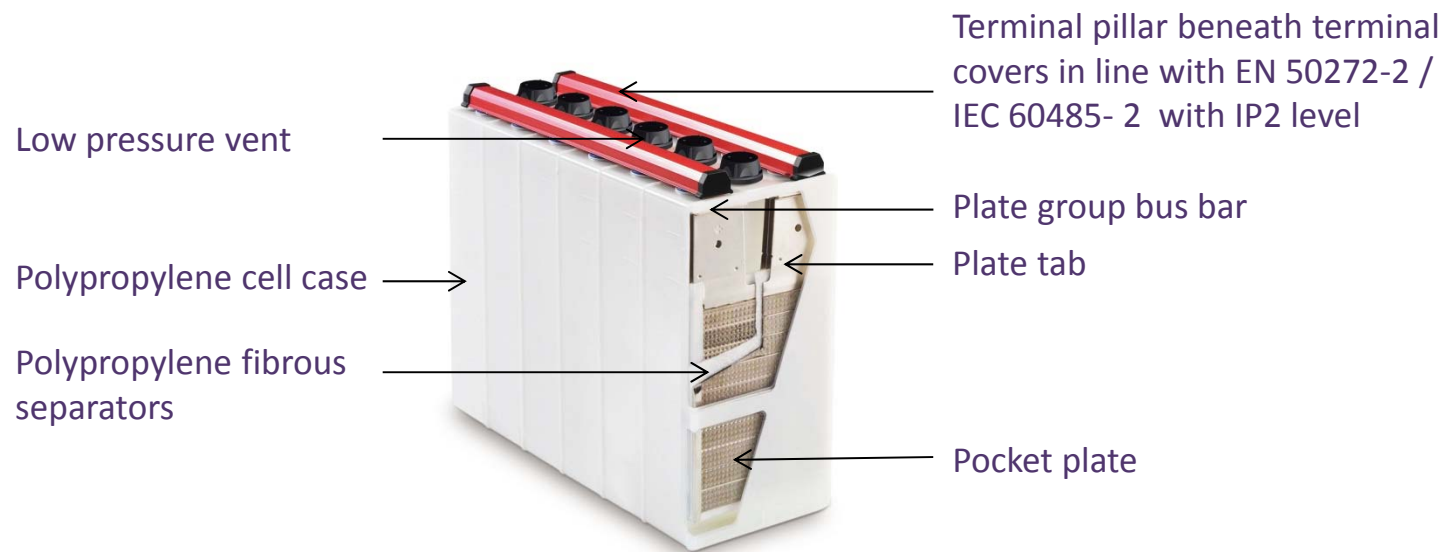


Uptimax New Generation

Key features

- Maintenance free – no topping up operation throughout the entire service life of the battery
- Improved electrical performance up to 10% at relevant discharge times
- Higher charge efficiency
- Long operational life, even at +40°C (+104°F)
- Storage filled with electrolyte and electrical charge up to 2 years
- Easy transportation, installation and operation

Uptimax New Generation Construction features



Uptimax New Generation

New high-tech design concept

■ Maintenance-free

- > No requirement to add any water throughout the long service life of the battery under recommended operating conditions
 - From -20°C (4°F) to + 40°C (104°F) at 1.43V /cell with temperature compensation
- > Only preventive maintenance
- > Decrease the operational cost and reduce the maintenance manpower

Uptimax New Generation New high-tech design concept

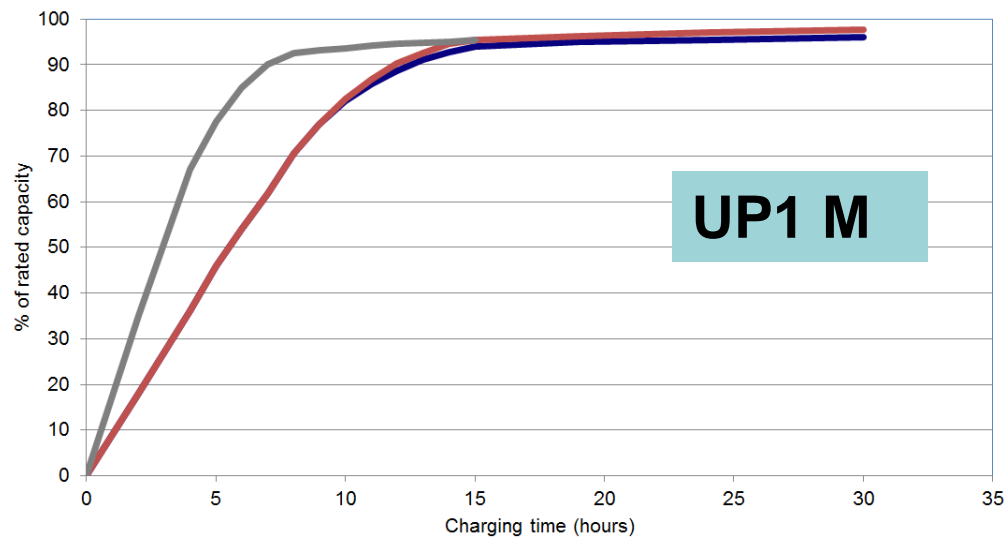
- Electrical performance up to 10% for relevant discharge times
 - > Enable customer to benefit from a smaller battery capacity to suit their specific application

 - > Example
 - 110V (-10% / +15%) 200 A for 1H discharge time
- New Generation: **87 * UP1 M 395** (instead of 87 *UP1 M 420)

Uptimax New Generation New high-tech design concept

Higher chargeability

Available capacity after constant voltage charge
Available charge current $0.1 C_5$ A or $0.2 C_5$ A at 20°C (68°F)



UP1 M

For charging with voltage higher than 1,45V/cell, a current limit of $0,1C_5$ A is required.

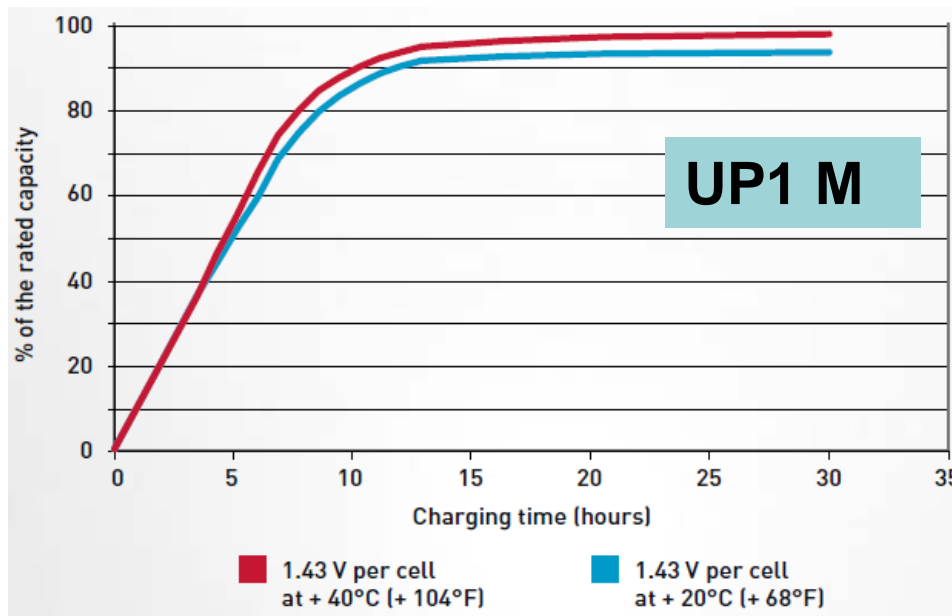
■ 1,43 V per cell, $0.1 C_5$ ■ 1,45 V per cell, $0.1 C_5$ ■ 1,45 V per cell, $0.2 C_5$

Uptimax New Generation

New high-tech design concept

Higher chargeability

Available capacity after constant voltage charge
Available charge current 0.1 C₅ A



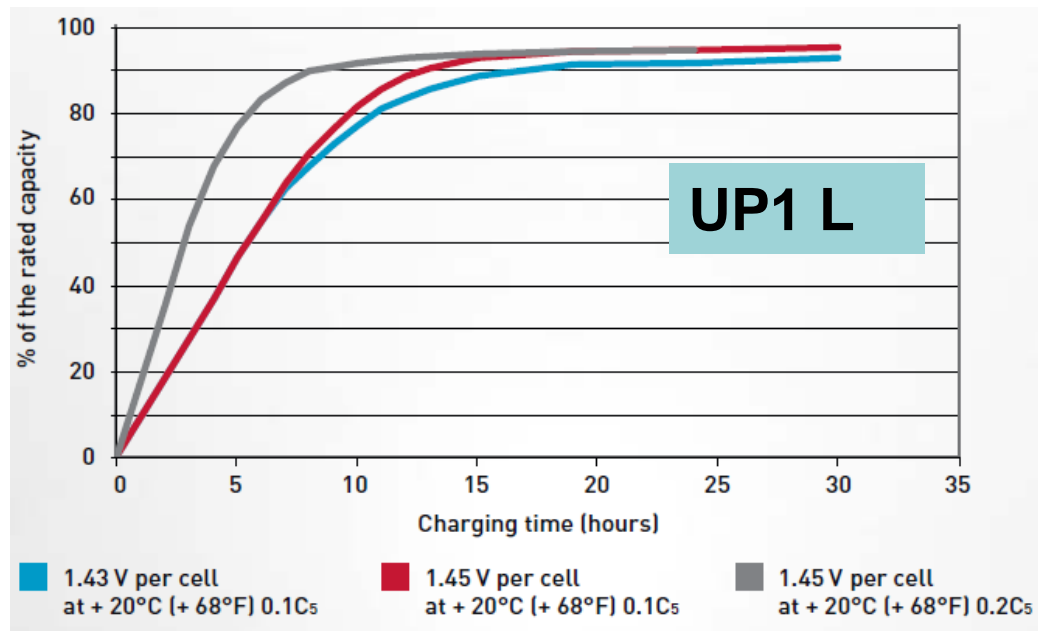
95% of capacity available at +40°C (104°F) after a single charge at 1,43V/cell for 15 h,

Optimax New Generation

New high-tech design concept

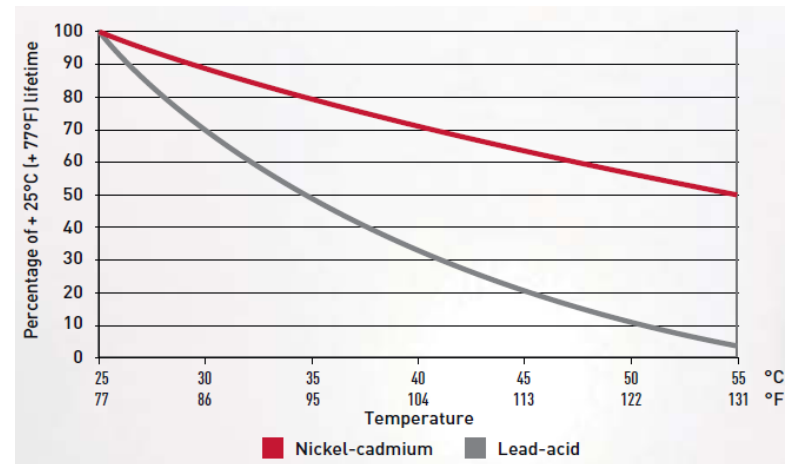
Higher chargeability

Available capacity after constant voltage charge
Available charge current 0.1 C₅ A or 0.2 C₅ A



Uptimax New Generation Robust Ni-Cd construction

- Total reliability
- No risk of sudden death which is suffered by VRLA batteries
- Long service life
 - > even when operating at ambient temperatures of +40°C (+104°F) or more



Uptimax New Generation

Easy to install and operate

■ Easy to install

- > Flexible block configuration
- > Assembled in block up to 10 cells connected in series
- > Delivered filled with electrolyte and in electrically charged conditions, ready for installation

■ Easy to operate

- > Long term storage up to 2 years at standard conditions
- > Easy and simple commissioning, even after 6 months of storage
- > No topping-up operation during the entire service life of the battery

Uptimax New Generation Highest quality standards

- Certified IEC 62259
 - > Higher level of gas recombination beyond requirements of IEC 62259

- Complied with safety requirements of EN 50272-2 / IEC 62485-2 with IP2 level protection for electric shocks
 - > Protective covers for terminals and connectors
 - > Insulated cables

- ISO 9001 and ISO 14001 manufacturing quality

- Global Saft's worldwide sales and after-sales support network

Uptimax New Generation for stationary applications

