

New Uptimax

The 1st Ni-Cd battery for plug & play replacement of lead-acid

The latest generation of Uptimax is the perfect fit to replace lead-acid batteries thanks to its 1.39 V/cell single level charge. When a fast recharge is needed, 95% State-Of-Charge (SOC) in 8h can be reached at 1.45 V/cell for maximum availability and minimum downtime.

These improvements come in addition to the key existing benefits of the Uptimax range such as maintenance-free* operation with complete reliability for backup power applications and long operational life of over 20 years.

The perfect fit to replace lead-acid batteries

Thanks to its 1.39 V/cell single level charge without the need for boost charge, New Uptimax can be charged in all commonly used DC-systems with +/- 10% voltage window.

This reduces the need for dropping diodes or DC/DC converters, and as a consequence this decreases the overall cost of DC-systems.

In addition, its fast recharge enables 95% SOC in 8h at 1.45 V/cell for maximum availability after a power failure.

Reliable support to critical systems

Uptimax battery is designed to form the heart of Uninterruptible Power Supply and backup power systems that operate in the event of a loss of the main power supply to facilitate the safe shutdown of processes, safeguard computer data and provide a bridge to standby power.

Typical applications include substation switchgear, process control systems, emergency lighting, fire alarms and security systems.

* Maintenance-free means that no addition of water is necessary during the life time of the product when operating under Saft's recommended conditions.



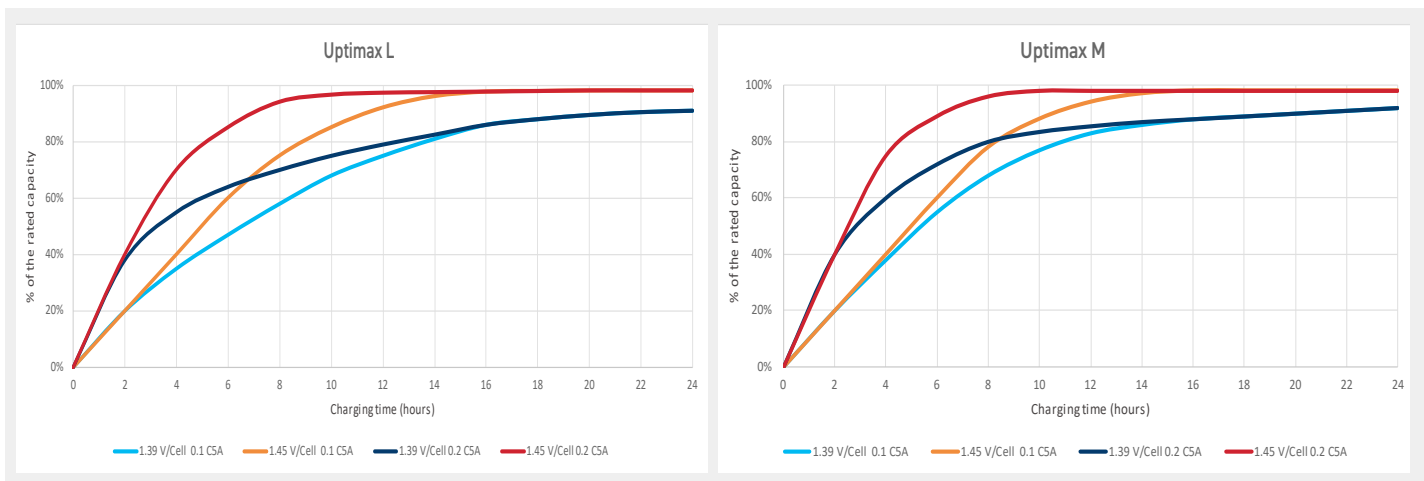
Features and benefits

Features	Benefits
Single level charging at 1.39 (+/- 0.01) V/cell	Less need for equipments such as dropping diodes or DC/DC converters
Fast-charging, 95% SOC in 8 hours	Minimal downtime and maximum availability
Long operational life of over 20 years at + 25°C (+77°F)	Low total Cost Of Ownership (TCO)
No memory effect	No need for oversizing
Proven Ni-Cd electrochemistry with no corrosion	No risk of sudden death or open circuit
Maintenance-free, no topping-up	Less site visits needed
Safe operation in a wide temperature range, - 20 (-4°F) to + 40°C (+104°F)	No need for temperature controlled environment avoiding A/C-related costs
Tolerates extreme temperatures - 40°C (-40°F) to + 70°C (+158°F) for short duration	Can be used in harsh environments
Tolerates fully discharging at sub-zero temperatures	No risk of freezing
Can be stored filled with electrolyte and charged for up to 2 years at 30°C (+86°F)	Convenient project planning
Very low gas emission	Less ventilation needed
Compliant with both IEC 62259 and IEC 60623	Fulfills all commonly used industry specifications
Compliant with IEC 62485-2	Ensures safe installations

Technical Specifications

	UP1 L energy range (L type)	UP1 M medium power range (M type)
	For low-rate discharges over long periods between 1 and 100 hours	For mixed loads with low and high discharge rates, between 30 minutes and 3 hours
Capacity range (C ₅ rate)	15 to 1700 Ah	8 to 1330 Ah
Charge voltage	Single level: 1.39 (+/- 0.01) V/cell Two levels: 1.39 (+/- 0.01) V/cell float, 1.45 V/cell boost	
Recharge	95% SOC in 8 hours @ 20-25 °C (+68-77°F) 1.45 V/cell, 0.2 C ₅ A	
Topping up interval	No topping up needed when charged according to specification	

Available capacity after constant voltage charge Available charge current 0.1 C₅A or 0.2 C₅A at + 20°C (+ 68°F)



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