

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

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



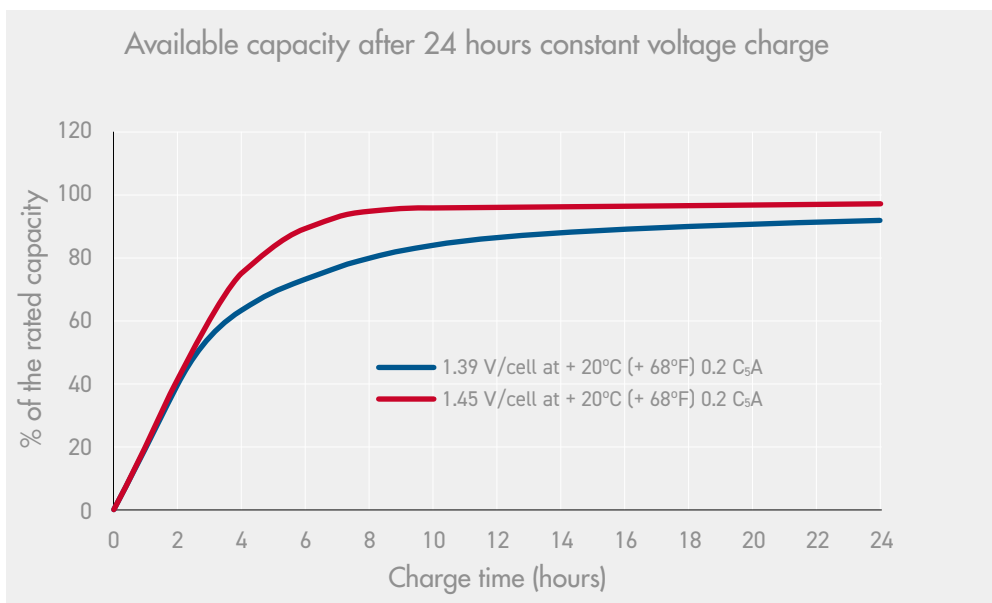
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Features and benefits

Features	Benefits
Single level charging at 1.39 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	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 to + 40°C	No need for temperature controlled environment avoiding A/C-related costs
Tolerates extreme temperatures - 40°C to + 70°C 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	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 V/cell Two levels: 1.39 V/cell float, 1.45 V/cell boost Temperature compensation: -2 mV/°C	
Recharge	95% SOC in 8 hours @ 20-25 °C 1.45 V/cell, 0.2 C ₅ A	
Topping up interval	No topping up needed when charged according to specification	



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