

EverExceed®
power your applications

- Double charger modular
- Parallel / redundant work mode
- More reliability and flexibility



uXcel ultra series - SCR Rectifier/Charger

Overview:

It's a new battery charging system with redundant/parallel, easily replaced charge modules providing high reliability and serviceability. EverExceed uXcel ultra Series Battery Charger is without doubt the most advanced battery management system available anywhere in both hot pluggable switch-mode and SCR phase controlled technologies.

EverExceed uXcel ultra series offers ultra reliability, programmability, and all the latest developments in battery management technologies.

Features:

- Double charger modular
- Parallel work mode
- Easy to installation and maintenance
- High reliability and flexibility
- SCR full-bridge rectifiers
- RS485 network interface
- Up to IP65 external protection

Reliability:

- Redundant, independent, charger modules increase reliability - a malfunction of one does not disable the charging system; remaining modules continue to operate.
- There are fewer single points of failure for the system;
- uXcel ultra series provides lasting secure power architecture for your industrial applications design (vertical through: Natural ventilation on most of the range Continuous operation at full load in permanent 40°C ambient temperature System lifetime of 20 years in continuous operation conditions Robust mechanical and horizontal acceleration stress up to 0,5 g as standard). Over current, over voltage and over temperature warning. Phase sequence detecting and phase lost protection.

Serviceability:

- Module change-out takes only minutes, while the system continues to operate
 - Technical personnel not required
- No need to remove the charger case from the boat or disconnect any wiring
- No inconvenience of power interruption to the boat

Flexibility:

- A charger can be easily removed from service for repair without time pressure relating to depletion of the battery;
 - A battery string can be taken off-line for maintenance, testing or replacement without putting the system at risk;
 - Advanced Battery Care
- uXcel ultra series is fully compatible with lead-acid and nickel-cadmium batteries, sealed or vented. A programmable battery test evaluates the efficiency of the entire battery. Tests on individual cells are achieved by employing our latest Battery Management system option. Constant current constant voltage charging and constant current discharging can switch automatically. Voltage, current etc. parameters are viewed when the equipment is running.

Communication

uXcel ultra series uses intuitive multilingual digital graphic control, meaning system status, measurements and alarms are accessible from the front panel of the equipment. The embedded 'event Log' function allows the user to trace the events. Event memory is activated from the first event appearance on. RS232, RS485 allow the monitoring equipment through network.

EverExceed uXcel ultra series rectifier/charger

Input type	Single-phase				Three-phase			
	24	48	110	200	24	48	110	220
Output DC voltage(VDC)	24	48	110	200	24	48	110	220
Available range of ratings(A)	25-250	25-250	25-250	25-250	25-2500	25-1200	16-1200	16-1000
Nominal AC voltage(VAC)	120/220/230/240				208/380/400/415			
Input voltage tolerance(%)	-15/+10							
Input frequency(Hz)	50/60							
Input frequency tolerance(%)	±5							
Nominal DC voltage(VDC)	24/48/110/120/220/240/400							
Available ratings(A)	see above							
Voltage stability	< 1%(in float mode, 0 to 100% load step, input within voltage tolerance)							
Voltage ripple	< 1%rms							
Boost mode current limitation	0.1C10(Lead Acid battery) / 0.2C5(Nickel cadmium battery)							
Operating temperature(°C)	-50 to 50(in permanent operation conditions)							
Storage temperature(°C)	-30 to 70							
Relative humidity(%)	≤95							
Operating altitude(m)	3000(without derating)							
Cooling	Natural ventilation on most of the range. (Fan-assisted for ratings above 1200A)							
External protection	IP44(up to IP65 upon request)							
Internal protection	IP44							
Communication interface	RS485/Modbus							
Noise(dB)	≤60							
Dimensions	Varying according to ratings and options							
Rectifier	6/12-SCR rectifier, harmonic filters, ripple filters, dropping diodes, meters, volt-free contacts, serial link							
Battery	Battery protection, Low-voltage disconnect, Battery Management System							
System	SCR full-bridge, Intelligence charging management, Fast acting fuse							

*For other voltages, please contact us. This product may differ from the product photograph on the front cover.