

uXcel series SCR type Rectifier Battery charger



Note: This image is for reference only.

Working Principle:

Rectification: Thyristor rectification can adjust the output DC voltage by controlling the conduction angle of the thyristor, and has good voltage regulation performance.

Charging Control: Automatically according to the charging characteristics and status of the battery, a combination of constant current charging and constant voltage charging is adopted. The charger accurately adjusts the charging current and voltage through the control circuit.

Application:

- Power transmission and distribution;
- Continuous process industries;
- Oil and Gas and petrochemical industries;
- Transportation (Rail, metro, tramway).

Advantages of uXcel series chargers:

Strong stability and reliability: Industrial chargers use high-quality electronic components and a sturdy shell design, which can adapt to harsh industrial environments such as high temperature, humidity, dust, etc.
Good compatibility: It can be compatible with various types and specifications of batteries, including lead-acid batteries lithium batteries, nickel-metal hydride batteries, etc.
Strong overload capacity: Able to withstand a certain degree of overload current, in the early stage of battery chargin or when encountering special circumstances, such as serious shortage of battery power needs to be charged with high current, the thyristor charger can provide a large charging current in a short period of time, without causing damage to th charger itself, with good stability and reliability.
High intelligence: It has intelligent charging management function, which can automatically adjust the charging mode and parameters according to the battery status to achieve unattended charging.

Our Goal:

*** Perfect tailor design DC backup power solutions.**

*** More flexible, More reliable, More Stable.**

*** A global leading manufacturer of customized AC/DC power solutions.**

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EverExceed is approved with ISO 9001 & ISO 14001 system.
EverExceed is audited by CQC, TLC etc.
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EverExceed | A global leading manufacturer of customized industrial battery charger.

JEA250801 EVEREXCEED BATTERY CHARGER TECHNICAL DATA

GENERAL	
Model	uXcel premium -220V325A
Topology	12 pulse full bridge thyristor rectifier
Control	Microprocessor controlled system
Standards	IEC60146、IEC60439、IEC60725、IEC61000-6-2、IEC61000-6-4、IEC62040(-1,-2,-3)
Configuration	Single System
ENVIRONMENT	
Operation Temperature	0 - 50℃
Storage Temperature	-20 to +70℃
Relative Humidity	< 95% (no condensation of moisture)
Altitude	1000 m Max without derating
INPUT PARAMETERS	
Input Isolation Transformer	Galvanically isolated / Primary & Secondary Earth Screened
AC Voltage And Tolerance	400VAC±10%, three-phase
Input Frequency And Tolerance	50Hz/60Hz ±5%
Input Protection	Input MCCB Thermic magnetic overcurrent protection
OUTPUT PARAMETERS	
Nominal Output Voltage	220VDC
Float Voltage	0-330V adjustable
Boost Voltage	0-330V adjustable
Voltage Stability	±1% in float mode, input within tolernce
Nominal Output Current	325A
Output Current Adjustment	0-100% of Nominal Output Current
Output Ripple	1% RMS (with battery connected)
Mode Of Operation	constant voltage/constant current
Static Voltage Regulation	< 1%
Efficency	90%
Filter	L Filter
Output Breaker	Battery MCCB, Load MCCB
Battery Bank	Lead Acid or Nickel Cadmium vented or recombination
Boost voltage (V/C)	2,35 lead acid battery 1,60 NiCd Battery (Depends on battery manufacturer recommendation)
Float voltage (V/C)	2,25 lead acid battery 1,40 NiCd battery (Depends on battery manufacturer recommendation)
MECHANICAL PARAMETERS	
External Protection	IP20, Cold rolled sheet
Panel Thickness	Load Bearing:2 mm, Non Load Bearing: 1.5 mm
Frame Colour	RAL7035
Noise (dB)	<50 dB
Cooling	Fan cooling
Cable Entry	Bottom
Dimensions	1800H*1000W*900D(mm)\Estimated size
DISPLAY PANEL & MEASUREMENT	
Meter	DC voltage, Battery current,Load current
Protection	Charger fault protection (DC overvoltage, DC overcurrent, Over temperature)
Alarm	Fan fault,Battery low voltage disconnected,Battery Reverse Polarity,
Indication	LED lamp
Display	LCD display
COMMUNICATION	
Communication	RS232, Modbus RTU
Dry contact	Charger fault

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