

# uXcel 24V300A Industrial Charger

Supply for Kuwait Oil Company  
(KOC) project .



More flexible



More reliable



More affordable

Location: Kuwait/2024

## Background:

The project was customized for the Kuwait Oil Company (KOC) project in Oil & Gas Sector. These two customized chargers can effectively meet the load growth needs of on-site production, optimize the power structure, improve the power supply capacity, and ensure the safe and reliable supply of power, which can effectively meet the power supply needs at the site, so as to achieve safe production.

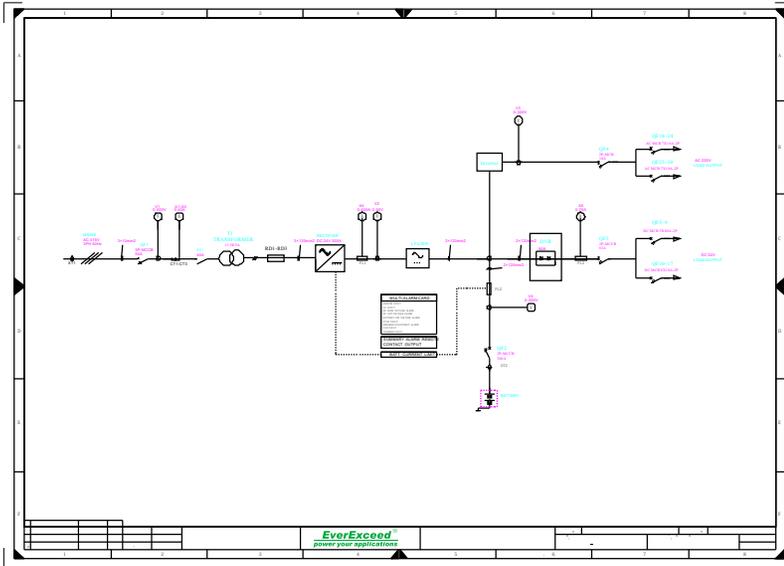
Kuwait Petroleum Corporation (KOC) is a subsidiary of Kuwait State Petroleum Corporation (KPC) and is recognized as one of the world's top oil energy manufacturers. The company minimizes about 3 million barrels of oil every day to control nearly 8% of the world's oil reserves. It is the fifth largest oil producer of OPEC Petroleum Carter. KOC's business includes domestic exploration, drilling and production of oil and natural gas in Kuwait.



## Custom design highlights:

- ◆ **1.Flexible customization:** Adopt 12-pulse design, configured with filtering electrolytic capacitors and input EMI configuration, to ensure that the output ripple <5%, THi <15%, as well to achieve a high power factor and low harmonic output requirements;
- ◆ **2.Safe and reliable:** There are 2 high-power cooling fans added on the top of the cabinet, which can effectively solve the cooling problem of large loads so that the battery charger can operate normally under high loads for a long time. The inverter has been customized to provide AC power (230VAC) with reliable output; The DC power supply is also customized with a step-down silicon chain that can provide reliable DC power to precision loads;
- ◆ **3. Flexible capacity increase:** The modular design of the unit allows any combination or expansion of the charger's functions and protection, which better and conveniently meets the customer's customization needs;
- ◆ **4. Simplified structural design:** It is easy to install, overhaul, dismantle, and can be quickly recovered. The base of the cabinet is raised to 300mm to make it easier to access or exit the cable;
- ◆ **5. Unique appearance design:** With IP54 spray SS316L cabinet, the chargers have higher corrosion resistance and security. It is not susceptible to moisture, condensation, dust, pollution, etc. Furthermore, we customize cabinets in the original color as customer's need.

## Customized system chart



## General specification:

Topology	12 pulse full bridge thyristor rectifier
Model	uXcel-24V300A
Input voltage	380V AC 50HZ
Phase	3 Phase , 3Wire
Rated power	13.5KW
Output voltage	24V DC
Output current	300A
IP class	IP54
Float Voltage	26.7V-27.0V
Boots/Equalize Voltage	28.2V-28.8V
Current Limited	100%
Power OfInverter	2000W
InverterInput Voltage	24VDC
Inverter Output Voltage	230VAC

## Functions and protection:

- ◆ **Alarm function:** Ground fault, AC fault, DC high voltage alarm, DC low voltage alarm, battery low voltage alarm, fuse fault, breaker disconnect alarm, fan fault, charger fault, ect.
- ◆ **Protection functions:** Overcurrent protection, fuse protection, short circuit protection, overload protection, etc.
- ◆ **Monitoring data:** Input voltage, output DC voltage, input current, output DC current, input power, output power, equalization voltage, float voltage, etc. At the same time, the charger has the function of storing certain data, which can support the customer to check the alarm event and download it at any time.
- ◆ **Panel indication:** Intelligent touch screen, alarm indicator, operation indication, power indication, input voltage, input current, output voltage of inverter, output DC voltage, output DC current, DC current to load, battery voltage
- ◆ **Communication:** RS232, Modbus TCP/IP
- ◆ **Design service life:** The charger can run continuously without trouble for up to 200,000 hours under suitable maintenance conditions.



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