

# WHITE LABEL DC CHARGER - POWERHOUSE

## 480kW Combined AC/DC - DC/DC (DC bus)

Full Liquid cooled  
Up to 4 dispensers

### PRIVATE LABEL CHARGER

Product can be fully  
designed for  
your brand!



Custom  
features



High  
efficiency



Low noise  
design



Wide voltage  
range



Innovation

### Product introduction

UDC48004GADC High Power Charger is designed as combined AC/DC - DC/DC (DC bus) low noise split and multi charging point application. 480kW high power output which supports up to 4 charging guns. Optional liquid cooled 500A charging cable (max. 600A@10min) can be combined with the standard 350A charging cable each to get max power through the intelligent power switching. Full liquid cooled power module application for high protection and reliability.

### Key features

- IP65 power conversion area in the powerhouse
- Full liquid cooled power modules
- Intelligent power switching matrix
- Low noise - less than 65dB
- Easy output power configuration AC/DC per 120kW
- Easy output power configuration DC/DC per 60kW
- Output voltage up to 1000V
- Supports up to 4 charging guns

### Dispenser options

- OCPP 1.6 J support with update firmware to 2.0
- P&C (VIN), smart charge and power management support
- Standard 350A charging cable - Optional 500A (600A@10min) liquid cooled charging cable
- Standard 7" TFT capacitive touch screen LCD
- LAN and LTE wireless support 4G/5G
- RFID authorization
- Payment terminal integration



**THE MAJOR BENEFITS  
OF OUR WHITE LABEL  
BRANDING ARE THAT IT  
REDUCES RISK, SAVES  
YOUR COMPANY TIME,  
ENERGY, AND MONEY IN  
TERMS OF PRODUCTION  
AND TIME-TO-MARKET.**

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Your green  
technology  
contractor



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make it  
**real.**

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## Technical parameters

### AC input

AC input Frequency/Voltage	50-60Hz/ 3-phases+(N)+PE / 400Vac ±10%
Power factor	>0.99
Grid type	Support TN-C, TN-S, TN-C-S or TT system
Total harmonic current	<5% (Rated input)

### DC output

Output DC voltage range	200V-1000V
Max DC output power	480kW@200V~1000V
Max DC output current	500A (max. 600A@10 min)
Max system efficiency	≥96% (at full charge)
Output channel	Max 480kW/ channel
Dispenser support	Max 4 guns

**HMI** E-STOP

**Dimension** W \* H \* D mm = 1420 \* 2150 \* 1160 mm

**Weight** 1500 kg

**Protection Class** IP65 for the distribution compartment

**Enclosure protection** IK10

**Electrical protection** Over-current, short-circuit, over-/ under voltage ground fault, anti-lightning, over-temperature

### Standard

Charging standard	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24
	IEC 61000-4/-2/-3/-4/-5/-6 (Noise immunity, Industrial field, Class A)
	IEC 61851-21-2 (Emissions, Class A)
	IEC 61000-3-12 (Harmonic currents)

### Working environment

Ambient temperature	-30 ~ +60°C Full power output below 50°C, Power derating above 50°C
Storage temperature	-40 ~ +75°C
Working humidity	0 ~ 95%
Working altitude	2000 m
Noise level	≤65dB