

## Model # OBC6600-144V

1-Ph, 220/230/240V, 50/60Hz, 6.6KW 144V DC 46A Smart On Board Charger for E-Mobility Applications

### Product Description

**OBC6600-144V is a Magnizon's Smart 6.6KW, 144V/46Amp On board charger designed for pure E-mobility solutions.** It adopts advanced resonant frequency modulation technology, high efficiency, large power, small size and reliable operation. The charging mode adopts constant power and constant voltage automatic state conversion, effectively reduces the charging time. With active power factor correction, zero pollution to the power grid, wide input and output voltage range, adopting CAN2.0B communication protocol, intelligent charging function, intelligent monitoring and fault alarm protection function, functions of remote detection, burning, fault inquiry, etc. Built in 12V independent auxiliary power supply for automotive BMS power supply. This power supply is designed for the charging of lithium ion batteries for new energy vehicles, and is fully synchronized with the world class automotive power suppliers. The performance indicators have reached or exceeded the international counterparts level, and the fault free operation time is longer upto 150,000hrs.



**Liquid Cooled unit**

### Applications

- ❖ Lithium battery manufacturers
- ❖ Pure Electric vehicle manufacturing firms
- ❖ Cleaning cart, golf cart
- ❖ Logistics trucks, forklifts
- ❖ Sightseeing car, electric boat
- ❖ Battery energy storage equipment, UPS room equipment
- ❖ Customized special non-standard charger

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#### Air Cooled unit

#### Key Features

- ❖ Fully Sealed, Enforce air Cooling/Liquid Cooling (Module Optional)
- ❖ Reliable working under -35°C- +85°C
- ❖ Internal temperature sensor
- ❖ Shut off inside temperature over 90°C
- ❖ IP67 Protection Level
- ❖ Constant current and constant voltage automatic conversion, effectively save charging time
- ❖ Active power factor correction $\geq 0.99$
- ❖ Input over-voltage/under-voltage protection
- ❖ Output over-voltage/under-voltage protection
- ❖ Output over-current protection
- ❖ Output short circuit protection
- ❖ Output reverse connect protection
- ❖ Over-temperature protection
- ❖ CAN communication intelligent fault alarm, protection function
- ❖ Small volume, high power density
- ❖ Designed for new energy vehicles

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**Specifications**

Magnizon Model:	OBC6600-144V
Capacity	6.6KW 144V 46A
<b>AC Nominal Input</b>	
Phases/ Lines	1-phase;Single Phase
Input Voltage /Current	95V - 265V AC /32A
Frequency	45Hz-60Hz
<b>DC Nominal Output</b>	
Output Mode	CC / CV
Output Power	6600W @ 220VAC ; 3300W@110VAC
Output Voltage	50V – 196V DC (Rated 144V)
Output Current	46A
CV Accuracy	±1%
CC Accuracy	±2%
Ripple Voltage Coefficient	0.05
Output Efficiency	>93% (Full loading)
<b>Low Voltage Output</b>	
Output Mode	CV
Output Voltage	13.8V/27.6V
CV Accuracy	±1%
Nominal Current	5A
Max Current	5.5A±0.5A
	CC Accuracy ±2%
Ripple Voltage Coefficient	0.01
<b>Communication</b>	
Can Communication	Optional
Baud Rate	125Kbps、250Kbps、500Kbps
Terminal Resistance	NO
<b>Security Protection</b>	
Multi Protection	Input Over-voltage Protection; Input Under-voltage Protection; Output Over-voltage Protection; Output Under-voltage Protection; Output Over-current Protection; Over-temperature Protection; Short-circuit Protection; Battery Reverse Connect Protection; Ground Protection; CAN communication Protection; Power-off Protection
<b>Miscellaneous specs</b>	
Operating temperature	-35°C~+85°C
Storage temperature	-45°C~+95°C
Operating humidity (%RH)	20-90(No condensation)
Storage humidity (%RH)	10-95(No condensation)
Vibration	QC/T413-2002(Other parts required)
Cooling mode	Water-cooled
Insulation resistance(MΩ)	Input-output-shell>10 (25°C,70%RH)
IP Level	IP67
MTBF	150,000 hours
Dimension & Weight	353*230*160 (Air Cooling) / 353*230*127 (liquid Cooling) & 14Kgs
Warranty	2 years
Quality Standards	ISO9001:2015, ISO14001:2015, CE, RoHs

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