

On Board Charger (OBC)



Electrical Specification:

Output voltage[V _{DC}]	170 - 410
Nom. Power[KW]	3.3
Max. output current [A]	12
Input Voltage[V _{ac}]	85 - 275
Input Current [A]	16
Efficiency [%]	≥93
Power density [kW/dm ³]	1.1
PWR [kW/kg]	0.95
Passive discharge	<60 VDC within 120s
Active discharge	<60 VDC within 5s
Electrical protection	OVP, OCP, OTP
Communication	CAN
Operation altitude	4000m

Application:

- Vehicle mounted On board charging device for Plug-In Hybrid Electrical Vehicles (PHEV's) and electrical Vehicles (EV's)

Features

- Automotive design
- Global power grid compatibility
- Compact design and higher power density
- High level safety design
 - HV interlock (HVIL)
 - Passive discharge
 - Active discharge
- Galvanic isolation for AC input, DC output and vehicle logics
- Full aluminum casing
- Digitally controlled power conversion
- Liquid cooling
- High temperature de-rating

Benefit:

- Awarded by China Primary car makers
- Comply with China QCT-895
- Further Software function development for customer

Mechanical Specification

Operation temperature	-40°C to 85°C
IP class	IP67
Weight	3.5kg
Coolant pressure drop	< 2 kPa
Over pressure resistance	200 kPa
AC&DC connector	Universal common type (Tyco)
Size LxWxH [mm]	310x194x69