

# Charger Module

## Introduction

The 180V/6A constant voltage & constant current (CV/CC) charger module is a power supply device R&D-tailored for fusion devices, boasting core advantages such as high anti-magnetic interference, high voltage resistance, digital controllability, remote operation, and high safety & reliability. It enables remote adjustment of charging parameters and remote monitoring of operating status, accurately meeting the special working condition requirements for charging supercapacitor modules. In terms of structural design, control logic and system integration, the module can be perfectly embedded into the supercapacitor integrated unit.



## Parameters

Parameters	
Input Voltage	220 VAC $\pm$ 15%
Output Voltage	180 VDC max
Output Current	6 A max
Power	1.08 kW max
Efficiency	$\geq$ 90% (Full Load)
PF	$\geq$ 0.98 (Full Load)
Voltage Accuracy	1%FS (20%—100%Load)
Current Accuracy	1%FS (20%—100%Load)

## Environment

Operating Temperature	-25°C~60°C
Storage Temperature	-25°C~70°C
Humidity	≤ 90%RH, No condensation

## Others

Communication interface	RS485
Cooling Method	Air Cooling
Insulation Withstand Voltage	3000 VDC
Protection	Overvoltage, Overcurrent, Short Circuit, Overtemperature
Size	408 mm × 313 mm × 128 mm

## Applications

This product is mainly applied to the charging system of supercapacitor modules in the pulse power supply of fusion devices. With its characteristics of high anti-magnetic interference, high voltage resistance, and high-precision constant voltage and constant current, it can also be used in scenarios such as laboratory and testing equipment, and electric vehicle charging.