

# P R B X

## POWERBOX Automotive Line ENA400 Series 400W Single Output DC/DC Converter

### Features

Very rugged design  
Suitable for electric vehicles  
Isolated output

### Input

Input 48VDC, 72VDC or 102VDC.  
Start up and stop voltage See table.  
Input voltage range See table.  
Stand by power off/idle 2mA / 25mA.  
Polarity protection None, external fuse is required.

### Output

Output voltage 13.8VDC.  
Output current 29A.  
Short circuit proof Yes\*.  
Over voltage protected No.  
Temperature protected Yes.  
Polarity protection None, external fuse is required.  
Output ripple 25 mV rms @ 25°C.  
Power efficiency See table.  
Line regulation 1%.  
Load regulation 2%.

### Environmental

Humidity 5-95% RH, non condensing.  
Ambient temperature -25° - +35°C.  
Vibration TBD.



### General

Housing Metal enclosure.  
IP-class IP65.  
Cooling Convection with external heat sink.  
Life time 15 years at 25°C 2h/day.  
Remote control TTL logic. Unit normally ON. 5VDC high turns OFF unit.  
Dimensions 55x116x203mm including mounting bracket.  
Casing Aluminium.  
Weigh Approx. 1,6kg.  
Input connector Welisheng P3-A00229.  
Output connector Rema 78180/00.  
PCB 1,6mm double side 70µm FR4.

### Standards

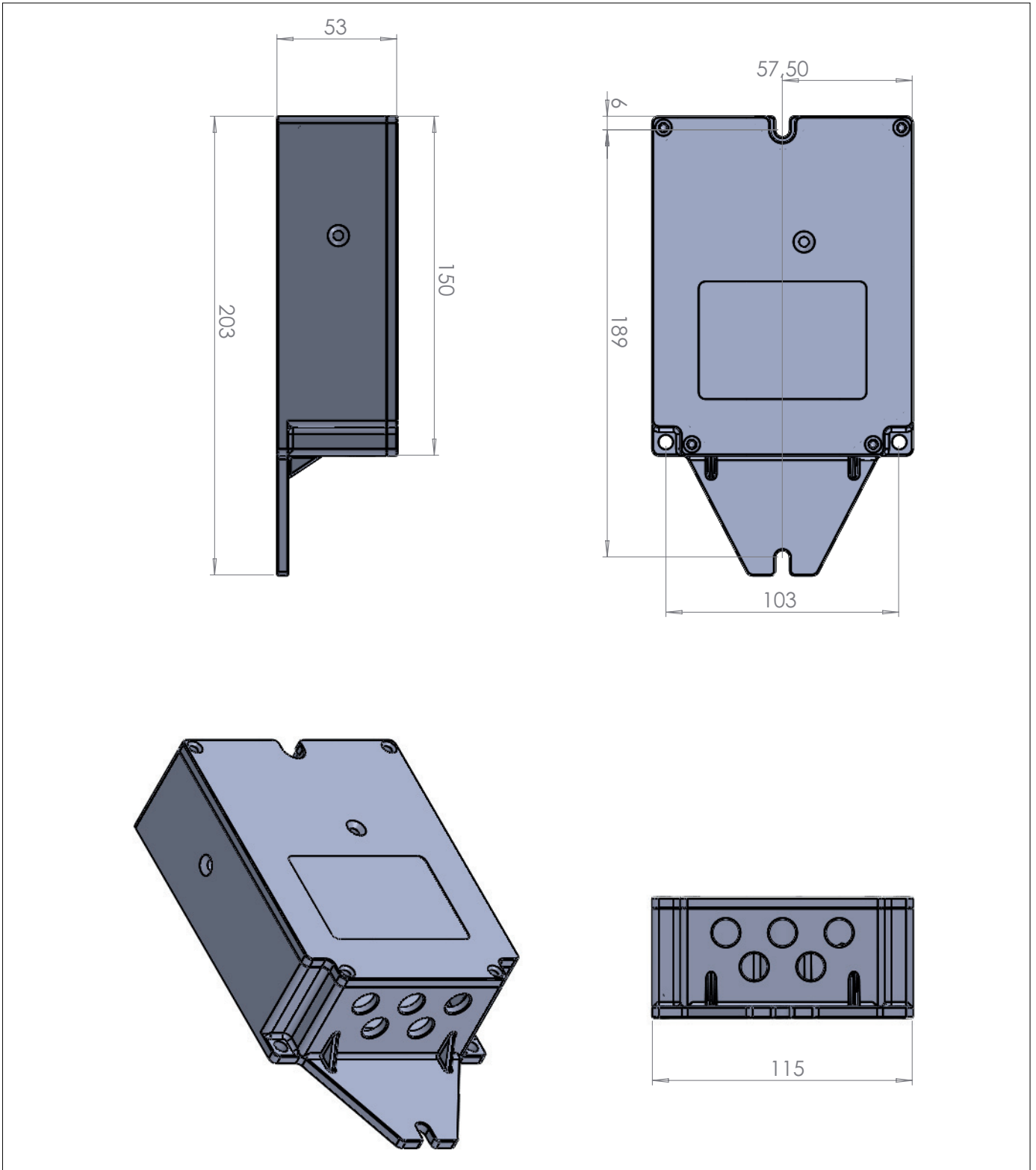
Safety approval Designed to meet IEC60950-1.  
Immunity TBD.  
Emission EN55022 (conducted+radiated).  
Safety EN60950-1.

\* Not continuous short circuit proof. To be used with fuses on output.

Model Number	Input Voltage	Voltage Range	Start Up Voltage	Stop Voltage	Remote Control	Output Voltage	Output Current	Efficiency
ENA400 5301	48VDC	39-70VDC	39VDC	32VDC	48V on, 0V off	13.8VDC	29A	91%
ENA400 5303	72VDC	50-100VDC	57VDC	45VDC	5V on, 0V off	13.8VDC	29A	90%
ENA400 5305	102VDC	85-140VDC	95VDC	75VDC	102V on, 0V off	13.8VDC	29A	90%

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ENA400 Series  
400W Single Output  
DC/DC Converter

Mechanical



Specifications are subject to change without notice.