

## 5. SPECIFICATIONS

Input .....	12V DC 10A, 5V DC 2A
Working temperature .....	-40°C to 65°C (-40°F to 150°F)
<b>Starting current</b>	
DSR108 .....	450A
DSR109 .....	800A
<b>Recharge time from battery</b>	
DSR108 .....	90 seconds
DSR109 .....	150 seconds
<b>Recharge time from 12V socket</b>	
DSR108 .....	200 seconds
DSR109 .....	400 seconds
<b>Recharge time from USB</b>	
DSR108 .....	20-40 minutes
DSR109 .....	40-60 minutes

## 6. REPLACEMENT PARTS

12V DC cig charging cable .....	3899003573Z
---------------------------------	-------------

## 7. FREQUENTLY ASKED QUESTIONS

### Q: Is this ProBooster safe for the ECU and car's computer?

A: Unlike traditional jump starters, this ProBooster uses ultracapacitors instead of a battery. The voltage of capacitors is restricted to a range which is safe for all kinds of ECU. Therefore, there is no risk from overvoltage.

Capacitors have a very small capacity, about 0.2-0.4Ah. They will fully recharge from the alternator within couple seconds once the vehicle is started. Disconnecting the ProBooster will not cause any load dump, so there is no voltage spike produced.

### Q: Will the transfer of residual energy to the ProBooster damage the weak battery?

A: No. This ProBooster draws only 0.2-0.4Ah energy from the battery. A weak car battery normally has a capacity of 10-30Ah and can recharge the ProBooster many times without any adverse effects.

### Q: How many jump starts can a fully recharged ProBooster perform?

A: This ProBooster is designed to start only once when fully recharged. It recharges itself after each use, which takes only about 100 seconds. Therefore, it can jump start many times as needed, successively.

### Q: How long can the ProBooster hold a charge?

A: This ProBooster will self-discharge to 0 in a few days, but it can be instantly recharged from a weak battery within 100 seconds and ready for use.

### Q: What is the life span of this ProBooster?

A: This ProBooster can be used more than 10,000 times before noticeable loss of performance. Ultracapacitors remain operable for more than 10 years.

### Q: What is the effect of low temperature on this ProBooster?

A: The ultracapacitors in the ProBooster keep the same starting current, even at extreme cold weather—down to -30°C.

	20°C	0°C	-10°C	-20°C	-30°C	-40°C
Lead-Acid	300Amp	180Amp	120Amp	100Amp	50Amp	30Amp
Lithium-Ion	300Amp	190Amp	120Amp	80Amp	60Amp	40Amp
Ultracapacitor	300Amp	300Amp	300Amp	300Amp	280Amp	250Amp