

## 7.2/9.5 KW Electric Vehicle Li-Ion Charger Data Sheet

### Description:

Green Watt Power's 7.2kW and 9.5kW super capacitor chargers are designed with ultra-high efficiency, as well as built-in intelligent control. The extraordinary performances of circuit design provide the charger with high power density and high conversion efficiency. This series of chargers offer solid and safe power conversion with air cooling, long life time for a wide range of applications in super capacitor and battery charging applications.

### Features:

- Input Voltage: 310~580Vac
- Output Power: 7200/9500W
- High Reliability
- High Efficiency: Up to 96%
- All-Around Protections: Phase Lack, OVP, UVLO, SCP, OTP
- Compatible with Air Cooling
- Low Temperature Start Up @ -40°C
- High Temperature Full Load Operation @ 50°C
- IP20 Ingress Grade
- CAN Communication



| Module Number           | Maximum Output Current | Output Power | Voltage Range |
|-------------------------|------------------------|--------------|---------------|
| EVC-80-7200 (PLD9080)   | 80A                    | 7200W        | 0-90V         |
| EVC-100-9500 (PLD10095) | 95A                    | 9500W        | 0-100V        |

| Input Parameters  |                       |                         |
|-------------------|-----------------------|-------------------------|
| Model Number      | EVC-80-7200 (PLD9080) | EVC-100-9500 (PLD10095) |
| Input Voltage     | 310-580V              |                         |
| Input Frequency   | 45-65Hz               |                         |
| Max Input Current | 15A                   | 20A                     |

| Output Parameters   |                             |                         |
|---------------------|-----------------------------|-------------------------|
| Model Number        | EVC-80-7200 (PLD9080)       | EVC-100-9500 (PLD10095) |
| Output Voltage      | 0-90V                       | 0-100V                  |
| Output Current      | 80A                         | 95A                     |
| Max. Output Voltage | 90V                         | 100V                    |
| Current Accuracy    | <±1% @ I <sub>out</sub> >2A |                         |
| Voltage Accuracy    | <±0.5%                      |                         |
| Output Power        | 7200w                       | 9500w                   |
| Efficiency          | 96%                         |                         |
| Dimension           | 480x320x138mm               |                         |
| Weight              | 15kg                        |                         |

| General Specifications      |   |
|-----------------------------|---|
| Short Circuit Protection    | Hiccup Mode<br>Self Recovery when fault is removed  |
| Input UVP Protection        | Enters Auto recovery mode when Input voltage is under 300V. The unit will return to normal operation when powered back on.  |
| Input OVP Protection        | Enters Auto recovery mode when Input voltage is over 590V. The unit will return to normal operation when powered back on.   |
| Output OVP Protection       | Enters Auto recovery mode when output voltage is over 96V. The unit will return to normal operation when powered back on.   |
| Over Temperature Protection | The unit will go into thermal protection when the case temperature exceeds 85 ±5 °C. The unit will enter hiccup mode and will self-recover when the temperature becomes normal at or below 85 °C. |

## Notes:

- (1) Specification is subject to change without notice.

## Case Specifications:

Dimension: 320mm(W)\*480mm(L)\*138mm(H)

