

# E-MOBILITY

Manufacturers	Products	Applications
	<p>High voltage power distribution units (PDU), high voltage battery disconnect units (BDU), high voltage on board chargers (OBC) and DC/DC-converters, combo OBC and DC/DC-converter, electric vehicle communication controller (EVCC)  OBC: 6.6kW to 40kW, 94% efficiency  DC/DC-converter: 300W to 12kW  Combo OBC and DC/DC-converter: 3.3, 6.6 or 11kW OBC + 1 to 3kW DC/DC</p> <p>EV chargers, high voltage power connectors (plastic or metal), manual service disconnectors, signal connectors, charging connectors, high voltage wire harness</p>	<p>Battery Management Systems,  Automotive,  Electric Vehicles,  Charger Systems,  Agriculture,  Automatic Guided Vehicles,  UGVs, UAVs</p>
	<p><b>Powering the Future of Transportation</b>  DC/DC-converters from 300 to 3000W for 12, 24, 28, 48, 400VDC battery voltages  3000W BCA series bi-directional DC/DC-converters  Ruggedized enclosed 3000W BCE series bi-directional DC/DC-converters  1500 &amp; 3000W bi-directional non-isolated DC/DC-converters 12V/48V battery with a CAN 2.0b interface including remote ON/OFF  HVC series 400S12.4K0HVC-L-CM: 4kW auxiliary power module, 220VDC to 420VDC input, 9 to 16V output and provides a single isolated 12VDC output for powering auxiliary equipment, liquid cooled, rugged and fully IP rated, vibration resistant, thermally optimized enclosure  HVC 800S24.4K0HBC 16-32V output 4kW  High efficiency up to 97%</p> <p>1000W full-bricks with wide input range at 9 to 36VDC  AC/DC on-board charger module with 6.6kW, 240 to 450 VDC output, operate from international nominal mains voltages of 100-120 / 200-240VAC nominal.  OBC series are liquid cooled and feature a rugged, fully IP rated, vibration resistant, thermally optimized enclosure with slotted through holes for easy installation  300W AC/DC Li-Ion battery chargers for e-mobility and battery applications  High efficiency up to 95%</p> <p><b>Battery Management Systems</b>  Standard brick size DC/DC-converters 50 to 1000W  Single modules with 9 to 160VDC input &amp; 5 to 57VDC output voltage  Option: chassis mount and DIN-rail version, good shock and vibration dampening, temperature range -40 to +105°C  high efficiency &gt;95%</p>	<p>Battery Management Systems,  Automotive,  Mild Hybrid Vehicles,  Autonomous Vehicles,  Recreation Vehicles,  Electric Industrial Vehicles,  Agriculture Vehicles,  Last Mile Transit,  Automatic Guided Vehicles,  Fork Lifts</p>
	<p>Robust film capacitors meeting high demands for temperature, vibration and high reliability.  Operating temperature range from -65 to 125°C. Capacitance range from 0.001µF to 17100µF. Voltage range from 50VDC to 3300VDC, 230VAC to 920VAC.  Lifetime up to over 100,000 hours. High RMS current capability, low ESL &amp; ESR.</p>	<p>Automotive,  Marine, Inverters,  DC/DC-Converters,  Battery Systems,  AC Filtering, Medical</p>
	<p>GNSS receivers with accuracies from meter level down to millimeter level  Multi-constellation, multi-frequency, high-performance  Compatible with GPS, BDS, GLONASS, Galileo, QZSS  Processing of multiple GNSS signals on a single chip  Ultra low latency processing technology: more than 100Hz RTK processing ability, less than 10ms output delay, up to 200Hz attitude and positioning data  Dual-RTK solution: single-board dual-antenna positioning and dual-RTK calculation  High precision even if satellite signals are blocked: centimeter-level accuracy maintained for more than 10 minutes after interrupted base station or blocked communication</p>	<p>Precision Agriculture,  Surveying, UAV, Drones,  Robotics, CORS  Autonomous Driving,  Vehicle Navigation,  IoT, Trackers, Wearables,  Precision Timing</p>
	<p>Ultra-precision Bulk Metal Foil resistor providing an extremely low temperature coefficient of resistance (TCR) and exceptional long-term stability through temperature extremes.</p> <p>High Precision Foil Resistors, Standard &amp; Custom Resistors, Currents Sense-, Power-, SMD-, THT-, Thermosensitive Resistors, Hybrid Chips (PRND), Trimmers, Voltage Divider Networks</p>	<p>Automotive,  Electric vehicle,  EV Battery Management Solutions,  Motor control</p>
		