





# 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), supply equipment communication controller (SECC)            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 400S12.4KOHVC-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 800S24.4KOHBC 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>Electric vehicle on-board chargers and DC/DC-converters            2-in-1 on-board chargers 6.6kW &amp; DC/DC-converters 1 to 3kW, liquid-cooling            Single 6.6KW EV on-board chargers with 85 to 265VAC input voltage &amp; 400 to 850VDC output voltage, CAN bus interface, air-cooling</p>	<p>Automotive,            Electric Vehicles,            Hybrid Vehicles,            Marine &amp; Yacht</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>