



EV Charging Solutions From APC Technology Group

Designed to ensure optimal performance and scalable delivery



With increasing demand for electric vehicle charging points across the UK, APC are primed to support organisations involved in the rapid roll-out of the EV charging point infrastructure. Up to 145,000 extra charging points will need to be installed across the UK each year in the run up to 2030 when the sale of new petrol and diesel cars will cease in the UK.

APC is supporting infrastructure providers, charging station design/manufacturers and EV test system providers with a range of technologies to help drive this growth.

Embedded processing and displays



For organisations looking to build charging solutions that meet safety and outdoor environment requirements, components need to be rugged, flexible, and durable. In addition, for true growth, solutions need longevity with applicable warranty and support structures in place.

Advantech offer a wide range of industrial motherboards, displays, embedded boards and memory products that operate efficiently in outdoor environments with wide operating temperatures, rugged capabilities and wide I/O capabilities. In addition to offering longevity Advantech's wireless gateways and pre-carrier certified 4G LTE modems can help empower AIoT solutions for enhanced charging system connectivity or data harvesting.

Connectors, cable and accessories



HARTING charging cables are available for all AC charging interfaces and match the three globally standardised connection systems. We can also supply special models designed for use within in-cable charging devices (IC-CPD) as interchangeable cord sets.

In addition, LAPP's charging cables include the LAPP Helix, a cable that automatically returns to its original shape after charging. The charging plugs are available in DESIGN and HEAVY DUTY versions, whereby the DESIGN version can be customised in all colour combinations whilst the robust HEAVY DUTY line is ideal for demanding applications in the public sector.

And for cable protection requirements, we are a long-term supplier of ABB's Adaptaflex range of non-metallic and metallic conduit systems suitable for protecting critical power systems and infrastructures.

Ask our team for additional technical insight on our range of EV charging technologies

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Power conversion and EMI filtering



With EMI/EMC filtering solutions developed and designed especially for EV charging stations, Astrodyne's RP695 filter range can mitigate electromagnetic noise in the EV charger space.

RP695 EMI filters for EV chargers feature a compact form factor that can fit tight spaces and are ideal for high voltage DC applications. These EMI/EMC filter solutions will help OEMs achieve critical, expensive, and often time-consuming emissions compliance without the need for major changes to already designed charger cabinets.

Astrodyne's RP695 series is a high current dual-stage DC EMI/EMC solution that operates up to 1500 VDC. The design also features a hybrid extruded-moulded design to minimise weight and cost.

Test and measurement systems



Test and measurement equipment such as Hioki's portable battery testers support the maintenance of UPS and storage batteries critical to the life support of electric vehicles. The BT3554 battery internal resistance tester sets the standard for assessing the deterioration and remaining life of UPS and other lead-acid batteries by giving a complete diagnosis via battery resistance testing.

As a Keysight Premium Plus partner, we empower automotive industry designers and manufacturers with the latest innovations in design and test solutions to help create high-quality and high-performance products while mitigating safety risks. Ask our team about our range of test solutions for e-mobility, autonomous driving, connected cars, and automotive electronics.

Metallic and non-metallic flexible cable protection systems

IoT gateways, servers and sensor nodes for system connectivity

Modular connectors and EV charging cables

Hybrid circular connectors and cable glands

EV battery testing equipment and resistance meters

Bench test solutions for charging and battery systems

Power and communication cabling solutions

Time synchronisation in critical power networks

AC/DC, DC/DC power supplies, loads and filters

Find out more about our EV technology range from our team

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