
DİRAK
SECURE
APPLICATIONS
FOR EV

We don’t build charging stations.

But we do make them more secure.

As EVs become more popular, more charging stations are being built. Currently, the United States has about 50,000 public charging points, and this number is increasing. These charging stations need a secure way to connect to power sources, so they require reliable enclosure solutions.

Protection against weather and vandalism

Many electric car charging stations are located outdoors, making them vulnerable to both extreme weather conditions and acts of vandalism. To safeguard these critical infrastructure components from such risks, it’s essential to ensure that the enclosures remain both sealed and securely closed.

DIRAK offers many locking solutions for cabinets that provide secure locking and when combined with industry leading DIRAK multipoint latching and gasketing solutions, will ensure that charging infrastructure will stay safe and dry.

For those looking for an added level of security for their cabinets, many DIRAK solutions are designed to meet RC2 class vandal resistance in accordance with DIN 1630 standards. These handle solutions are even more robust and secure, providing additional peace of mind.

Regardless of which DIRAK latching solution you choose, Most are designed to accept high-security profile lock cylinders to ensure that the locks are not easily picked. A dual-lock cylinder handle is also available for those cabinets that may need to be opened by more than one party’s key.

Key features to protect your EV charging station

Weather-resistance

Corrosion protection

Long lifespan

Vandalism resistance

Robust Materials

Regarding materials, DIRAK latches are traditionally built from either high-strength powder-coated zinc die, or optionally stainless steel. Both of these materials have a proven track record of providing good to great corrosion resistance as well as the durability required to make forced break-ins less likely to be successful.

And while DIRAK hinges are also produced of strong, durable and corrosion resistant materials, we further recommend using one of the many concealed hinges in the DIRAK catalog. Concealed hinges are another great way to deter break-in attempts, as the hinges are located out of the sight and reach of potential vandals and thieves.

The all-arounder.

The 2-104 swinghandle is a versatile latch for outdoor applications, boasting an IP65 level of dust and water ingress prevention. A UV-resistant powder coating ensures an attractive finish even after years in the elements, while the gray color is a great match for many cabinets.

The handle also has safeguards against vandalism and meets RC2 class vandal resistance. This is accomplished though the use of hacksaw resistant materials, anti-pry designs and robust latching solutions that prevent the handle from being forced open using common hand tools.

Additionally, it features a unique sloped top making it difficult to use as a climbing aid.

2-104

T-Handle for flush applications.

If you are looking for a particularly flush handle for use on your charging cabinet, we'd suggest the 3-145 T-handle. It can be mounted so that it protrudes only 15mm from the door surface in its most flush mounting option. When unlocked, the handle springs forward for easy rotation.

With the optional padlock feature, the handle provides lock core protection. Additionally, the flush design also makes it difficult to use a climbing aid.

This handle is compatible with both round rod and flat rod multipoint systems and is IP65 rated against dust and water ingress.

3-145

Dual lock cores for dual keycode access.

For enclosures that require access by multiple parties, such as two distinct service providers, the dual-core swinghandle is the solution.

Like many other swinghandles in the DIRAK catalog, the dual-core swinghandle meets RC2 vandal resistance standards and is IP65 rated against dust and water ingress.

2-126.01

2-126.02

The standard for extra protection.

By far the best seller in the DIRAK catalog, this versatile outdoor rated swinghandle features a robust design, IP65 rating and multiple locking options including padlock options. Additionally it can be equipped with a dust cover for the lock core, keeping dirt and grime from contaminating the lock cylinder.

2-090

For robust requirements.

The heavy weight champion of the DIRAK line, the 2-103 RC2 combines RC2-level vandalism resistance with IP65 level environmental protection making it a great option for many outdoor applications. A specially-design latching mechanism provides security against forced entry, and a steel insert (HRC 45) makes it harder to saw through.

2-103

Extreme corrosion resistance.

The stainless steel swinghandle is a great choice for highly corrosive environments thanks to its all-stainless-steel construction. Manufactured from high-grade 316 stainless steel combined with a low-profile design ensures a high level of protection against corrosion. Additionally, the lock cylinder is recessed and protected by a durable cover plate to protect it against damage.

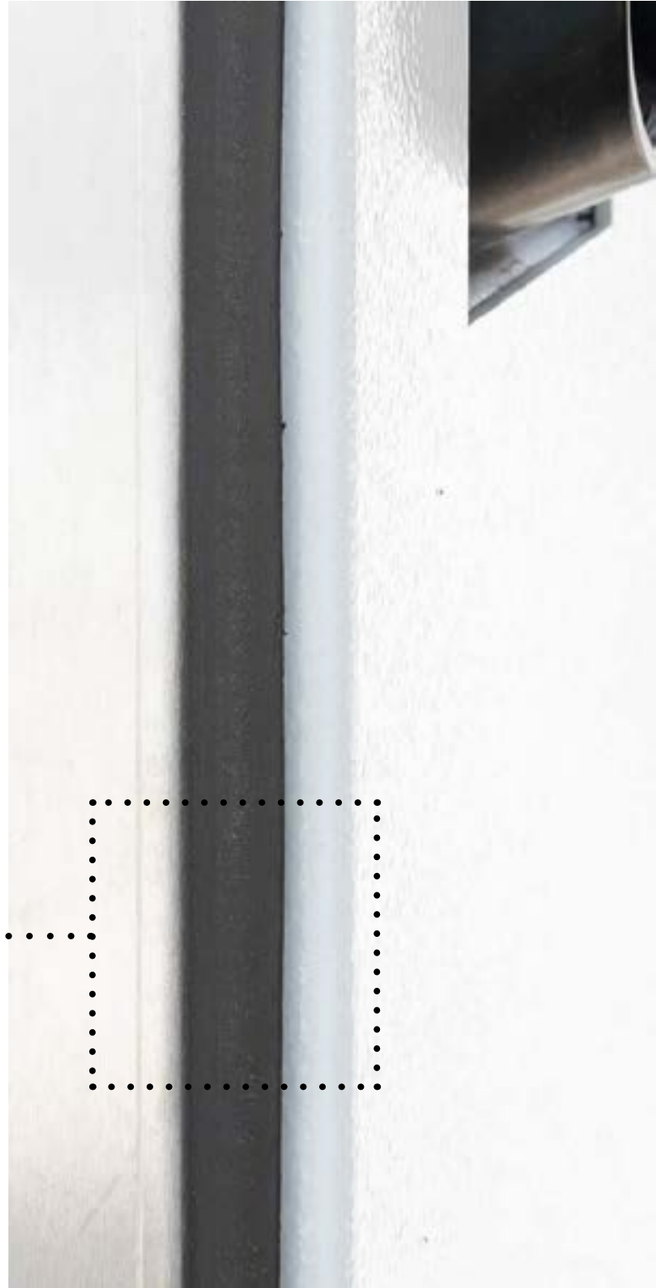
7-066

Protection from any weather.

EV charging stations are constantly exposed to environmental factors such as sunlight, moisture, and temperatures fluctuations. Special material compounds are required to endure these potentially harsh factors. Our clip-on sealing profiles feature stainless steel cores and a strong, durable PVC over-molding.

This, combined with foam-rubber seals crafted from synthetic rubber provide superior resistance to ageing and flexibility. Having been tested and approved to UL 157 and UL 50E standards, they are am ideal option for sealing EV charging stations and battery storage units.

5-153



A well-balanced lock.

This stainless-steel single or multi-point lock can be used in applications where a swinghandle may not be the best solution, especially for enclosures like EV charging stations.

Much like a swinghandle, it can operate multiple latching points from a single locking position, and is designed to accept a profile-cylinder lock core. This latching system offer a very high level of dust and water ingress resistance, meeting IP69K-rated levels of protection.

6-503

Concealed for added security.

Concealed hinges are an ideal option for surface-mounted doors. As the hinges reside behind the door panel, they can help in creating a seamless and clean design.

This hidden location can also make unwanted access more difficult, as the hinges are also not easy to access when the door is closed. DIRAK offers a large selection of concealed hinges in different dimensions, materials and load ratings to cover most applications.

4-120