



Industrial solar panel cleaning equipment

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To achieve a variety of sustainability and energy preservation goals, many facilities, as well as residences, are installing solar panels to reduce their reliance on traditional power sources. To keep your investment operating at optimal efficiency, part of the post-installation costs includes regular cleaning and investment in the right solar panel cleaning equipment. Without regular cleaning, dirt and debris can build up on the panels, which over time can cause a delay in the activation of your panels and a net loss in power generation.

Regardless of how your solar modules are installed - flat, angled, on the ground, or high on roofs - Unger's solar panel cleaning equipment is designed to deliver an effective level of clean without damaging the surface of the solar modules.

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Photovoltaic and solar thermal energy modules harness solar radiation and convert it to energy. But debris from dust, soot and pollen can reduce their output by up to 20%, reducing their efficiency. The natural power of rain, condensation and wind are nowhere near strong enough to clean the modules effectively. To keep photovoltaic and solar panel systems running effectively and produce a consistently high level of power, regular and thorough cleaning is required.

In most cases, large module surfaces cannot be easily cleaned with water and a sponge, and it would simply be too dangerous, as the modules are often mounted on the roof at an angle of 30° to 45°. With iSolar, Kärcher has developed an innovative commercial pressure washer accessory that solves this problem.

iSolar's modular structure enables the user to safely and efficiently clean photovoltaic systems of any size. Rotating disc brushes connected to telescopic wands are powered by the water coming from the pressure washer, allowing you to effectively clean areas that are hard to access.

Because dirt buildup leads to a loss of power that translates to lower electricity production, iSolar pays for itself in no time.

Wherever solar and photovoltaic systems are installed – agriculture, trade, industry or in the home – iSolar will ensure the sun's energy is properly harnessed. There are practically no limitations on how iSolar can be used. This is particularly helpful in areas exposed to heavy soiling. Kärcher iSolar represents an economical choice for both system operators and cleaning service providers.

The iSolar accessory system can be used for a variety of roofs and module types. For roofs that are easily accessible, cleaning from the roof is recommended in conjunction with the use of fall protection equipment. For roofs that are difficult to access, cleaning should be carried out from a more secure position, for example a



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stable and secure lifting platform. Disc brushes and telescopic wands are available in different sizes and lengths to meet the unique cleaning needs of the cleaning situation.

The iSolar brushes are powered by the water stream from the pressure washer, which also helps to remove the dirt. However, the cleaning effect itself is achieved by the mechanical action of the bristles. The bristles are made of nylon, ensuring scratch-free modular surface cleaning. The iSolar 400 and iSolar 800 are operated at low pressure, eliminating any danger of the modules being damaged. To provide an exceptionally long service life, the rotating brushes are fitted with robust ball bearings.

These adjustable telescopic wands provide easier access for cleaning photovoltaic and solar panel roofs that might otherwise be unreachable.

RM 99 Solar Cleaner is specially formulated for cleaning the unique surfaces of photovoltaic and solar panels. It is highly effective in the removal of most stubborn dirt and can even tackle stubborn and greasy stains. It also prevents the formation of limescale, and maximizes the effectiveness of the system at minimum cost.

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