efika

Product Data Sheet

Solar Panel Cleaning Brush

Anti-Scratch Microfiber Brush with Telescopic Aluminum Arm

1. Product Overview

This professional-grade cleaning brush is specifically designed for solar panel maintenance. It features anti-scratch Polypropylene bristles mounted on a lightweight, durable plastic base, paired with a telescopic aluminum arm for extended reach. Engineered for effective, safe, and efficient cleaning of PV modules without damaging surface coatings or glass.

2. Brush Head Specifications

Feature	Specification
Application	Solar panel surface cleaning
Bristle Material	Microfiber – UV-resistant, anti-scratch
Bristle Properties	Ultra-soft synthetic microfibers, high pile density, allows even water distribution during wet cleaning
Base Material	High-density PP or ABS (UV-stabilized)
Base Dimensions	50 cm (length) × 10 cm (width)
Brush Mounting	Clamp-type extension poles with multi-angles
Surface Compatibility	All PV modules (glass-coated, AR-coated, bifacial)
Color	Standard: multi-color

3. Telescopic Arm Specifications

Feature	Specification
Material	Anodized aluminum – lightweight and corrosion-resistant
Length (Adjustable)	Minimum: 2 meters / Maximum: 12 meters
Extension Type	Telescopic, multi-section with twist-lock mechanism
Grip	Non-slip for ergonomic handling
Weight (Arm Only)	Approx. 1.8–2.3 kg depending on length
Water-feed Compatibility	Optional internal water channel with hose connection

4. Key Features

- Anti-scratch microfibers to preserve solar glass and surface coatings
- UV and weather resistant for outdoor longevity
- Safe for anti-reflective and bifacial PV modules
- Extended reach up to 12 meters without scaffolding
- Lightweight & fatigue-reducing design for long-duration use
- Optional water-feed system for wet cleaning applications
- Designed for manual and semi-automated cleaning workflows
- Allows even water distribution during wet cleaning
- Ensures no pooling or dripping that could cause streaks or watermarks
- Designed to slide smoothly over panel surfaces with minimal resistance
- Ensures no loose fibers are left behind on the panel surface

5. Recommended Use Cases

- Ground-mounted and rooftop solar PV systems
- Utility-scale solar farms
- Residential & commercial solar installations
- Dry cleaning in desert or dusty environments
- Water-assisted cleaning in coastal or polluted regions

6. Optional Add-ons

- Water-feed adapter
- Brush head replacement kits

7. Compliance & Quality

• Microfibers tested for micro-scratch and abrasion on solar glass
• Materials conform to industrial-grade standards for environmental resistance
• Compatible with international solar O&M cleaning best practices