

Smart Dual-Contact Charging Dock

Compact countertop charging base for rechargeable handheld and portable devices



Designed for simple drop-in charging

A guided cradle, exposed spring contacts and a stable anti-slip base support repeatable device placement with minimal user effort.

Product family concept

Available imagery shows compact and extended-base mechanical variants in white/black finishes.

This specification is prepared from the supplied product imagery. Electrical values that are not fully legible in the source images are intentionally marked for confirmation before production release.

1. Product Overview

The Smart Dual-Contact Charging Dock is a compact AC-powered desktop charging station built around two raised metal charging contacts and a molded positioning cradle. Its enclosure combines a low-profile docking platform with an upright electronics housing, providing a clean, integrated charging location for compatible portable equipment.

Drop-in contact charging	Two exposed metal contacts support direct conductive charging without repeatedly connecting a cable to the end device.
Guided mechanical placement	The recessed center geometry and shaped base help locate the device consistently over the charging contacts.
Integrated AC power stage	Source labeling indicates universal AC mains input, allowing the dock to serve as the fixed power interface at the charging location.
Stable desktop installation	Large anti-slip pads on the underside improve grip and reduce movement during docking and removal.
Compact industrial design	Rounded edges, a small footprint and enclosed electronics support deployment in professional, consumer and light-medical environments.



2. Preliminary Technical Specifications

Parameter	Specification / observation
Product type	Dual-contact conductive charging dock / charging base
Input	100-240 VAC, 50/60 Hz (legible on supplied underside label)
DC output	Low-voltage DC output shown on source label; exact voltage/current to be confirmed from production electrical design
Charging interface	2 raised metal charging contacts
Mechanical alignment	Molded cradle / center guide for repeatable placement
Primary white compact variant	Approx. 150 x 130 x 97 mm (source image)
Extended white variant	Approx. 160 x 232 x 116 mm; source image lists 900 g
Black compact variant	Approx. 151 x 130 x 98 mm; source image lists net weight approx. 420 g
Base stability	Multiple anti-slip elastomer pads
Installation	Desktop / countertop / bedside / equipment-station use
Finish options shown	White body with black electronics housing; all-black variant

Engineering note: The supplied image set appears to contain more than one mechanical variant. Dimensions and weights above are therefore preserved as variant-specific source values rather than merged into a single production specification.



3. Applications & Product Value

Application	Use case
Portable medical / care equipment	Provides a fixed return-to-charge location for compatible rechargeable devices used around a room, station or treatment area.
Inspection & test equipment	Useful for handheld instruments that need a repeatable storage and charging point between jobs.
Service & hospitality devices	Supports simple user interaction where cable handling should be minimized.
Smart home / personal devices	Suitable for products designed around a dedicated conductive charging cradle.

4. Recommended Production-Release Items

Before this document is used as a controlled customer datasheet, confirm the exact DC output voltage/current, charging-contact pinout and polarity, compatible device/battery specification, charge-control method, protection functions, operating/storage temperature, enclosure material/flame rating, ingress protection, applicable safety/EMC certifications, and the final production dimensions/weight for the selected mechanical variant.

Product Positioning

Smart Dual-Contact Charging Dock - a clean, compact and easy-to-use charging base that turns a compatible portable device's storage position into its charging position. The guided cradle and direct metal-contact interface reduce connector handling and support a more organized charging workflow.

