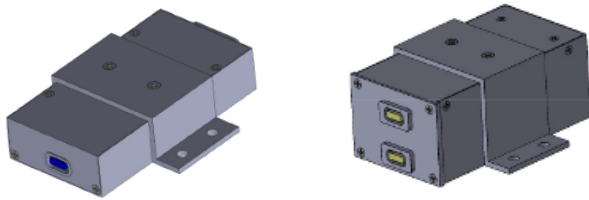# PTX DEFENSE

Proudly Made In The USA

Protecting Your Portable Electronic Devices (PED)

✔ **FAA PMA- APPROVED**
✔ **Go Green Sustainability Compliant**
✔ **Supplemental Type Certificate (STC)**

SKYDOCK PRO USB C SINGLE / DUAL 100 - WATT (SKD-505-00 / SKD-505-01)

OVERVIEW

SkyDock Pro USB C 100-WATT is the **fastest charging technology** available in the market. The SkyDock Pro USB C 100-WATT is designed to promote sustainability through industry leading efficiency, while maintaining super fast charging capabilities. The SkyDock Pro has a longer lifespan and ensure durability that helps us outperform and outlast our competition.

ADVANTAGE

GO GREEN - European Union (EU) Compliant
Meets the new EU PED Requirement for USB chargers. Helps reduce e-waste and empowers consumers to make more sustainable choices.

Stringent Safety Standards
Adherence to DO160G High Performance Safety Standard. Reduced inrush current with Soft-Start and input filtering ensures safe dissipation of inrush energy, protecting both the charger and the connected devices.

Superior Design & Specifications
SkyDock goes through vigorous vibration tests to ensure rigidity of our complete units. Temperature and thermal runaway protection ensures that internal components remain stress-free, enhancing the charging point's longevity.

Efficiency & Compatibility
With an efficiency rating of 90% to 93%, the SkyDock Pro USB C Chargers optimize power usage. They operate within an input voltage range of 14 VDC to 32 VDC, with 5 AMP being the most efficient input power at 28 VDC.

SPECIFICATIONS

Electromagnetic Interference (EMI)

- EMI interference avoidance and Input Power Conditioning.
- Forced-PWM at Light or No-Load conditions for reduced EMI through USB cable.
- Board Layout Design and Enclosure Design reduces EMI.

Device Protection

- Integrated Over-Current Protection.
- Integrated Protection for Cable Shield-Short-to-Battery faults preventing cable, passenger, and device damage.
- Fast detection of cable shield over-current.
- Fast turn-off of external protection switch.
- Supports USB BC1.2 Charging Downstream Port (CDP), Dedicated Charging Port (DCP), and High-Speed Passthrough Modes.
- ESD Protection on USB HVD+, HVD-, HVCC1, HVCC2 and SHLD_SNS pins

Compatibility & Charging

- Integrated HVDP/HVDM Apple® and Samsung® Charge Detection Termination Resistors.
- Compatible with USB On-The-Go Specification.
- Compatible with Oppo® and OnePlus® devices.
- Apple® Mafi R33 Overcurrent Compatible.
- Charge one or two devices simultaneously at maximum power

Current Approvals

FAA Approved
SkyDock has been approved by the Federal Aviation Administration.

Customer - Embraer Aeronautical
SkyDock Pro USB C 100 Watt single and dual are installed on the ERJ175 Regional Jets.