

Patria 5/12 VDC Charging Unit



Through Life Capability

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As more and more personal and mission specific electrical devices are being carried and used by helicopter crews and operators, the need for recharging capability has become more pronounced. Cell phones, tablets, laptops, cameras, and other type of equipment that are crucial for the mission are carried into the aircraft, which are designed to recharge using household 5VDC USB, 12VDC (typical automotive cigarette lighter adapter). The unit is electrically connected to the helicopter 28VDC utility outlets via easily removable, wear resistant woven harness having a MIL-specified connector.



VDC Charging Unit for Rotorcraft

Two separate ways to ground the device are provided by design. The device can be grounded to aircraft chassis via power inlet cable shield and connector shells and a bonding jumper from grounding stud of the device. A separate minor change for any given helicopter can also be performed to ensure the compatibility of this device. Namely the change would provide the necessary non-essential electrical bus load via a utility connector/outlet. The unit is intended to be used in a helicopter cabin environment by the cabin crew, not pilots. The unit, depending on the location of fixation and R/C outlet, can be used during flight. The unit has limited sealing to protect from splashes of water but is not immersion protected.



Key features

- Can be fixed by straps e.g. to a PALS attachment panel
- All power outputs can be used simultaneously
- Dual 5 VDC / 3A USB Type A Female Output
- Dual 12 VDC Output
- Lightweight (1.55 kg / 3.417 lbs.)
- Compact (205 mm x 204 mm x 47 mm / 8.07 in x 8.03 in x 1.85 in)
- 130W combined load when connected to rotorcraft 28VDC/5A utility socket
- 240W combined load when connected to rotorcraft 28VDC/16A utility socket
- ON/OFF -switch and fuse
- Carry-on item that is not part of the approved helicopter configuration
- Unit consists of TSO approved LRU's encased within an aluminum box
- Two separate means to ground the device are provided by design
- TC-basis is FAR29 amdt 31, AC 29-2C and AC-27-1B as applicable and EASA CM-ES- 001

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS: On condition, no tasks

Patria

When if is not an option.

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