

ProServ 2700 Environmental and Compliance Tables



Environmental Specifications Summary

| Environment | Specification |
|-------------------------------|---|
| Temperature, operating | 5° C to 40° C (41° F to 104° F) |
| Temperature, non-operating | -40° C to 70° C (-40° F to 158° F) |
| Altitude | 0 to 1,800 m (0 to 5,905 ft) @ 40° C 0 to 4,000 m (0 to 13,123 ft) @ 30° C |
| Humidity, operating | 5% to 85% |
| Humidity, non-operating | 93%, non-condensing at temperatures of 23° C (73° F) to 40° C (104° F) |
| Vibration, operating | Swept sine survey at an acceleration amplitude of 0.1 g from 5 to 100 Hz and back to 5 Hz at a rate of 0.1 octave/minute, 90 minutes per axis on all three axes as per Bellcore GR-63-CORE standards |
| Vibration, non-operating | Swept sine survey at an acceleration amplitude of 0.5 g from 5 to 50 Hz at a rate of 0.1 octaves/minute, and an acceleration amplitude of 3.0 g from 50 to 500 Hz at a rate of 0.25 octaves/minute, on all three axes as per Bellcore GR-63-CORE standard 2.2 Grms, 10 minutes per axis on all three axes as per <i>25-GS0009 Boards and Systems Environmental Governing Specification</i> |
| Shock, operating | Half-sine 2 g, 11 ms pulse, 100 pulses in each direction, on each of the three axes as per <i>25-GS0009 Boards and Systems Environmental Governing Specification</i> |
| Shock, non-operating | Trapezoidal, 25 g, 170 inches/second delta V, three drops in each direction, on each of the three axes as per <i>25-GS0009 Boards and Systems Environmental Governing Specification</i> |
| RoHS | Complies with RoHS Directive 2002/95/EC |
| Safety | UL 60950-1, 1st Edition/CSA 22.2 60950-1, Low Voltage Directive 2006/95/EC, GS to EN60950-1, 1st Edition CB Certificate and Report to IEC60950-1, 1st Edition and all international deviations |
| Emissions | Certified to FCC Class A; tested to CISPR 22 Class A; EN 55022 Class A, VCCI Class A ITE, AS/NZS 3548 Class A |
| Immunity | Verified to comply with EN 50082-1 |
| Electrostatic discharge (ESD) | Tested to ESD levels up to 15 kilovolts (kV) air discharge and up to 8 kV contact discharge without physical damage as per <i>25-GS0009 Boards and Systems Environmental Governing Specification</i> |
| Acoustic | Sound pressure: < 55 dBA at ambient temperatures < 24° C measured at bystander positions in operating mode |

Physical Dimensions

| Dimension | Value |
|-----------------|-------------------------|
| Height | 3.45 inches (87.6 mm) |
| Width | 17.14 inches (435.3 mm) |
| Depth | 20.0 inches (508 mm) |
| Front clearance | 2.0 inches (76 mm) |
| Side clearance | 1.0 inches (25 mm) |
| Rear clearance | 3.6 inches (92 mm) |

Electromagnetic Compatibility

| | |
|-----------------------|--|
| USA | FCC 47 CFR Parts 2 and 15, Verified Class A Limit |
| Canada | IC ICES-003 Class A Limit |
| Europe | EMC Directive, 89/336/EEC EN55022, Class A Limit, Radiated & Conducted Emissions EN55024 Immunity Characteristics for ITE EN61000-4-2 ESD Immunity (level 2 contact discharge, level 3 air discharge) EN61000-4-3 Radiated Immunity (level 2) EN61000-4-4 Electrical Fast Transient (level 2) EN61000-4-5 Surge EN61000-4-6 Conducted RF EN61000-4-8 Power Frequency Magnetic Fields EN61000-4-11 Voltage Fluctuations and Short Interrupts EN61000-3-2 Harmonic Currents EN61000-3-3 Voltage Flicker |
| Australia/New Zealand | EN55022, Class A Limit |
| Japan | VCCI Class A ITE (CISPR 22, Class A Limit) |
| Taiwan | BSMI Approval, CNS 13438, Class A and CNS13436 Safety |
| Korea | RRL Approval, Class A |
| China | CCC Approval, Class A (EMC and Safety) |
| Russia | Gost Approval (EMC and safety) |
| International | CISPR 22, Class A Limit, CISPR 24 Immunity |

NEBS Compliance

The Carrier Grade Server ProServ 2700 with DC input is compliant with the NEBS Level 3 criteria from the following NEBS specifications:

- NEBS GR-63-CORE, Issue 3 — Physical Protection
- NEBS GR-1089-CORE, Issue 4 — Electromagnetic Compatibility and Electrical Safety

ETSI Standards Compliance (DC Input Only)

The Carrier Grade Server ProServ 2700 with DC input is compliant with the following ETSI specifications:

- ETSI EN 300 386 — EMC requirements for Telecom Equip.
- ETS 300-019-2-1 — Storage Tests, Class T1.2
- ETS 300-019-2-2 — Transportation Tests, Class T2.3
- ETS 300-019-2-3 — Operational Tests, Class T3.2
- ETS 753 — Acoustic Noise