



TESTING SUMMARY

Dock and Cradle for Panasonic TB56 Laptop

(AS7.P056.100 | AS7. P056.102 | AS7. P056.110 | AS7. P056.112 | AS7. P056.104)

Test Description	Test Parameters
Vibration: Operational	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (6 hours total). • Unit is unlocked • Panasonic provided operating conditions • RF connection is also monitored during the test. • Test is monitored to record any breaks in connectivity during vibration.
Vibration: Non-Operational	MIL-STD-810G, Method 514.6, Category 24, per Figure 514.6E-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total). • Unit is unlocked
Mechanical Shock Safety: Non-Operational	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses along three mutually orthogonal axes (6 hours total). • 40G, 11ms half sine • Unit is unlocked
Mechanical Shock (Crash Hazard)	MIL-STD-810H, CHG 1, 516.7, Procedure V, 2 positive and 2 negative pulses along three mutually orthogonal axes (12 shocks in total). • 75g SRS
Cycle Test: Non-Operational	30,000 cycles of the docking connector, latching and locking mechanisms
Shock – Crash Hazard: Non-Operational	SAE J1455, Section 4.11.3.5, per Figure 13 • Unit is unlocked • Unit is tested in front to back and side to side orientations
Electrostatic Discharge: Operational	ISO 10605, Section 8, Table C.2, Category 2 – Direct Air Discharge
EMC Testing	• FCC Part 15, Subpart B • ICES-003 Issue 7 • CISPR 32/EN 55032:2015 • EN 50498:2010
Electrical Safety Testing	• CSA C22.2 No. 62368-1 • UL 62368-1
Low Temperature: Operational	MIL-STD 810G: CHG1, Method 502.5, Procedure II • -10°C [14°F] Operational, 24-hours
Low Temperature: Storage	MIL-STD 810G: CHG1, Method 502.6, Procedure I • -51°C [-60°F] Non-Operational, 72 hours
High Temperature: Operational	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5-II, Induced Conditions • Five 24-hour cycles, temperature varied from 30°C to 63°C to 30°C
High Temperature: Storage	MIL-STD 810G, Method 501.5, Procedure I, Table 501.6-III, Induced Conditions

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	• 85°C Non-Operational, 72 hours
Thermal Shock	MIL-STD 810G, Method 503.5, Procedure I-C • Fifty cycles from 85°C to -40°C to 85°C; Dwell Time of 2 hours at each temp.
Humidity	MIL-STD 810G, Method 507.5, Procedure II, Aggravated, Table 507.5- IX • Ten 24-hour cycles, temperature varied from 30°C to 60°C to 30°C at constant 95% relative humidity.
RoHS Compliance	EN 50581:2012 RoHS2 Directive 2011/65/EU

