



## TEST REPORT EN IEC 62680-1-2

### Universal serial bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery specification

Report Number.....: LCSA04285184S

Date of issue.....: 2025-06-11

Total number of pages.....: 26

Applicant's name.....: Shenzhen Huafurui Technology Co., Ltd.

Address.....: Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

#### Test specification:

Standard.....: EN IEC 62680-1-2:2025

Test procedure.....: Type test

Non-standard test method.....: N/A

Test Report Form No.....: TRF-4-S-412 A/1

Test Report Form(s) Originator.....: LCS

Master TRF.....: Dated 2025-02

#### General disclaimer:

The test results presented in this report relate only to the object tested.

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Test item description.....: Smartphone

Trade Mark.....: CUBOT

Manufacturer.....: Same as the Applicant

Model/Type reference.....: NOTE 60

Ratings.....: By Li-ion Battery



**Testing procedure and testing location:**

**Testing location/ address.....:** Shenzhen LCS Compliance Testing Laboratory Ltd.  
Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

**Tested by.....:** Cassie Ling / Test  
engineer

**Checked by.....:** Tim Liu / Project  
engineer

**Approved by.....:** Hart Qiu / Technical  
manager

**List of Attachments (including a total number of pages in each attachment):**

Annex A: Test data

Annex B: Photo documentation

**Summary of testing:****Tests performed (name of test and test clause):**

The submitted samples were found to comply with the requirements of:

**USB Power Delivery specification****Testing location:**

Shenzhen LCS Compliance Testing Laboratory Ltd.  
Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

**Copy of marking plate: N/A**



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<b>Test item particulars:</b>	
USB Type-C Receptable in equipment.....	<input checked="" type="checkbox"/> Full-Featured Type-C receptacle <input type="checkbox"/> USB 2.0 Type-C receptacle (16 pins) <input type="checkbox"/> Others:
USB PD supported .....	<input checked="" type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>No</b>
USB cable type .....	<input type="checkbox"/> Provided <input type="checkbox"/> Type A to C <input type="checkbox"/> Type C to C <input checked="" type="checkbox"/> Not provided
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object..... : N/A	
- test object does meet the requirement..... : P (Pass)	
- test object does not meet the requirement..... : F (Fail)	
<b>Testing:</b>	
Date of receipt of test item..... : 2025-04-28	
Date (s) of performance of tests..... : From 2025-04-28 to 2025-06-06	
<b>General remarks:</b>	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.  Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:</b>	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....	<input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	
Name and address of factory (ies).....	Same as the Manufacturer



**General product information:**

1. The EUT is B203 ON EAR EARPHO, The EUT has one type C receptacle for being charged. All models have the same components, internal construction and shape, except for the different model names.
2. The type-C receptacle was separately tested according to 'Universal Serial Bus Type-C Connectors and Cable Assemblies Compliance Document Revision', which fulfils the requirements of EN IEC 62680-1-3: 2022. (See critical components for details).
3. The Type-C receptacle is 24 pins as below figure:

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**TABLE: Critical components information**

Object/ Part No.	Manufacturer / Trademark	Type/Model	Technical Data	Standard	Mark (S) Of Conformity
Type-C receptacle	Hong Ri Da Technology Company limited	UC119-0B1502R0	Type-C receptacle 24pin	Universal Serial Bus Type-C Cable and Connector Specification	Report Number:25T04N000300-001-COM USB-IF: TID 13249
Rechargeable Li-ion battery	Shenzhen Huafului Technology Co., Ltd	C62	3.91V d.c, 7000mAh, 27.37Wh	IEC 62133-2 EN 62133-2	Report Number: TCT250417B013





EN IEC 62680-1-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>2</b>	<b>Overview</b>		<b>P</b>
2.1	Introduction		P
2.2	Section Overview		P
2.3	Compatibility with Revision 2.0		P
2.4	USB Power Delivery Capable Devices		P
2.5	SOP* Communication		N/A
2.5.1	Introduction		N/A
2.5.2	SOP* Collision Avoidance		N/A
2.5.3	SOP Communication		N/A
2.5.4	SOP'/SOP" Communication with Cable Plugs		N/A
2.6	Operational Overview		P
2.6.1	Source Operation		P
2.6.2	Sink Operation		P
2.6.3	Cable Plugs		N/A
2.7	Architectural Overview		P
2.7.1	Policy		P
2.7.2	Message Formation and Transmission		P
2.7.3	Collision Avoidance		P
2.7.4	Power supply		P
2.7.5	DFP/UFP		P
2.7.6	Cable and Connectors		N/A
2.7.7	Interactions between Non-PD, BC and PD devices		N/A
2.7.8	Power Rules		P
2.8	Extended Power Range (EPR) Operation1		N/A
2.9	Charging Models		P
2.9.1	Fixed Voltage Charging Models		P
2.9.2	Programmable Power Supply (Pps) Charging Models		P
2.9.3	Adjustable Voltage supply (Avs) Charging Models		N/A
<b>3</b>	<b>UsB Type-A and UsB Type-B Cable Assemblies and Connectors</b>		<b>N/A</b>
<b>4</b>	<b>Electrical Requirements</b>		<b>P</b>
4.1	Interoperability with other UsB Specifications		P
4.2	Dead Battery Detection / Unpowered Port Detection		P
4.3	Cable IR Ground Drop (IR Drop)		P
4.4	Cable Type Detection		N/A
<b>5</b>	<b>Physical Layer</b>		<b>P</b>



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Clause	Requirement + Test	Result - Remark	Verdict
5.1	Physical Layer Overview		P
5.2	Physical Layer Functions		P
5.3	Symbol Encoding		P
5.4	Ordered Sets		P
5.5	Transmitted Bit Ordering		N/A
5.6	Packet Format		N/A
5.6.1	Packet Framing		P
5.6.2	CRC		P
5.6.3	Packet Detection Errors		P
5.6.4	Hard Reset		P
5.6.5	Cable Reset		N/A
5.7	Collision Avoidance		P
5.8	Biphase Mark Coding (BMC) Signaling Scheme		P
5.8.1	Encoding and signaling		P
5.8.2	Transmit and Receive Masks		P
5.8.3	Transmitter Load Model		P
5.8.4	BMC Common specifications		P
5.8.5	BMC Transmitter Specifications		P
5.8.6	BMC Receiver Specifications		P
5.9	Built in Self-Test (BIST)		N/A
5.9.1	BIST Carrier Mode		N/A
5.9.2	BIST Test Data		N/A
6	Protocol Layer		P
6.1	Overview		N/A
6.2	Messages		N/A
6.2.1	Message Construction		P
6.3	Control Message		N/A
6.3.1	GoodCRC Message		P
6.3.2	GotoMin Message		P
6.3.3	Accept Message		P
6.3.4	Reject Message		P
6.3.5	Ping Message		P
6.3.6	PS RDY Message		P
6.3.7	Get Source Cap Message		P
6.3.8	Get Sink Cap Message		P
6.3.9	DR Swap Message		P



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Clause	Requirement + Test	Result - Remark	Verdict
6.3.10	PR Swap Message		P
6.3.11	VCONN Swap Message		P
6.3.12	Wait Message		P
6.3.13	Soft Reset Message		P
6.3.14	Data Reset Message		N/A
6.3.15	Data Reset Complete Message		P
6.3.16	Not Supported Message		P
6.3.17	Get Source Cap Extended Message		P
6.3.18	Get Status Message		P
6.3.19	FR Swap Message		P
6.3.20	Get Pps Status		P
6.3.21	Get Country_Codes		P
6.3.22	Get Sink Cap Extended Message		P
6.3.23	Get Source Info Message		P
6.3.24	Get Revision Message		P
6.4	Data Message		P
6.4.1	Capabilities Message		P
6.4.2	Request Message		P
6.4.3	BIST Message		P
6.4.4	Vendor Defined Message		P
6.4.5	Battery_Status Message		P
6.4.6	Alert Message		P
6.4.7	Get Country_Info Message		P
6.4.8	Enter UsB Message		P*
6.4.9	EPR Request Message		P
6.4.10	EPR Mode Message		P
6.4.11	Source Info Message		P
6.4.12	Revision Message		P
6.5	Extended Message		N/A
6.5.1	Source_Capabilities Extended Message		P
6.5.2	Status Message		P
6.5.3	Get Battery_Cap Message		P
6.5.4	Get Battery_Status Message		P
6.5.5	Battery_Capabilities Message		P
6.5.6	Get Manufacturer Info Message		P
6.5.7	Manufacturer Info Message		P



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Clause	Requirement + Test	Result - Remark	Verdict
6.5.8	Security Messages		P
6.5.9	Firmware Update Messages		P
6.5.10	PPs Status Message		P
6.5.11	Country_Codes Message		P
6.5.12	Country_Info Message		P
6.5.13	Sink Capabilities Extended Message		P
6.5.14	Extended_Control Message		P
6.5.15	EPR Capabilities Message		P
6.5.16	Vendor Defined Extended Message		P
6.6	Timers		F
6.6.1	CRCReceiveTimer		P
6.6.2	SenderResponseTimer		P
6.6.3	Capability Timers		P
6.6.4	Wait Timers and Times		P
6.6.5	Power Supply Timers		P
6.6.6	NoResponseTimer		P
6.6.7	BIST Timers		N/A
6.6.8	Power Role Swap Timers		P
6.6.9	Soft Reset Timers		P
6.6.10	Data Reset Timers		P
6.6.11	Hard Reset Timers		P
6.6.12	Structured VDM Timers		P
6.6.13	Vconn Timers		P
6.6.14	tCableMessage		P
6.6.15	DiscoveridentityTimer		P
6.6.16	Collision Avoidance Timers		P
6.6.17	Fast Role Swap Timers		P
6.6.18	Chunking Timers		P
6.6.19	Programmable Power Supply Timers		P
6.6.20	tEnterUSB		P
6.6.21	EPR Timers		P
6.6.22	Time Values and Timers		P
6.7	Counters		N/A
6.7.1	MessageID Counter		P
6.7.2	Retry Counter		P
6.7.3	Hard Reset Counter		P



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Clause	Requirement + Test	Result - Remark	Verdict
6.7.4	Capabilities Counter		P
6.7.5	Discover Identity Counter		P
6.7.6	VDMBusyCounter		N/A
6.7.7	Counter Values and Counters		P
6.8	Reset		P
6.8.1	Soft Reset and Protocol Error		P
6.8.2	Data Reset		P
6.8.3	Hard Reset		P
6.8.4	Cable Reset		P
6.9	Collision Avoidance		N/A
6.10	Message Discarding		N/A
6.11	State behavior		N/A
6.11.1	Introduction to state diagrams used in Chapter 6		N/A
6.11.2	State Operation		N/A
6.11.3	List of Protocol Layer States		N/A
6.12	Message Applicability		P
6.12.1	Applicability of Control Messages		P
6.12.2	Applicability of Data Messages		P
6.12.3	Applicability of Extended Messages		P
6.12.4	Applicability of Extended Control Messages		P
6.12.5	Applicability of Structured VDM Commands		P
6.12.6	Applicability of Reset Signaling		P
6.12.7	Applicability of Fast Role Swap signal		P
6.13	Value Parameters		P
<b>7</b>	<b>Power supply</b>		<b>P</b>
7.1	Source Requirements		P
7.1.1	Behavioral Aspects		P
7.1.2	Source Bulk Capacitance		P
7.1.3	Types of Sources		P
7.1.4	Source Transitions		P
7.1.5	Response to Hard Resets		P
7.1.6	Changing the Output Power Capability		P
7.1.7	Robust Source Operation		P
7.1.8	Output Voltage Tolerance and Range		P
7.1.9	Charging and Discharging the Bulk Capacitance on VBUs		P



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Clause	Requirement + Test	Result - Remark	Verdict
7.1.10	Swap Standby for Sources		P
7.1.11	Source Peak Current Operation		P
7.1.12	Source Capabilities Extended Parameters		P
7.1.13	Fast Role Swap		P
7.1.14	Non-application of VBus Slew Rate Limits		P
7.1.15	Vconn Power Cycle		P
7.2	Sink Requirements		P
7.2.1	Behavioral Aspects		P
7.2.2	Sink Bulk Capacitance		P
7.2.3	Sink Standby		P
7.2.4	Suspend Power Consumption		P
7.2.5	Zero Negotiated Current		P
7.2.6	Transient Load Behavior		P
7.2.7	Swap Standby for Sinks		P
7.2.8	Sink Peak Current Operation		P
7.2.9	Robust Sink Operation		P
7.2.10	Fast Role Swap		P
7.3	Transitions		P
7.3.1	Increasing the Current		P
7.3.2	Increasing the Voltage		P
7.3.3	Increasing the Voltage and Current		P
7.3.4	Increasing the Voltage and Decreasing the Current		P
7.3.5	Decreasing the Voltage and Increasing the Current		P
7.3.6	Decreasing the Current		P
7.3.7	Decreasing the Voltage		P
7.3.8	Decreasing the Voltage and the Current		P
7.3.9	Sink Requested Power Role Swap		P
7.3.10	Source Requested Power Role Swap		P
7.3.11	GotoMin Current Decrease		P
7.3.12	Source Initiated Hard Reset		P
7.3.13	Sink Initiated Hard Reset		P
7.3.14	No change in Current or Voltage		P
7.3.15	Fast Role Swap		P
7.3.16	Increasing the Programmable Power supply (PPs) Voltage		P



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## EN IEC 62680-1-2

Clause	Requirement + Test	Result - Remark	Verdict
7.3.17	Decreasing the Programmable Power Supply (PPS) Voltage		P
7.3.18	Increasing the Adjustable Voltage Supply (AVS) Voltage1		N/A
7.3.19	Decreasing the Adjustable Voltage Supply (AVs) Voltage		N/A
7.3.20	Changing the Source PDO or APDO		P
7.3.21	Increasing the Programmable Power Supply Current		P
7.3.22	Decreasing the Programmable Power Supply Current		P
7.3.23	Same Request Programmable Power Supply		P
7.4	Electrical Parameters		P
7.4.1	Source Electrical Parameters		P
7.4.2	Sink Electrical Parameters		P
7.4.3	Common Electrical Parameters		P
8	Device Policy		F
8.1	Overview		P
8.2	Device Policy ManagerA		P
8.2.1	Capabilities		P
8.2.2	System Policy		P
8.2.3	Control of Source/Sink		P
8.2.4	Cable Detection		P
8.2.5	Managing Power Requirements		P
8.2.6	Use of "Unconstrained Power" bit with Batteries and AC supplies		P
8.2.7	Interface to the Policy Engine		P
8.3	Policy Engine		P
8.3.1	Introduction		P
8.3.2	Atomic Message Sequence Diagrams		P
8.3.3	State Diagrams		P
9	States and Status Reporting		N/A
9.1	Overview		P
9.1.1	PDUSB Device and Hub Requirements		P
9.1.2	Mapping to USB Device States		P
9.1.3	PD Software Stack		P
9.1.4	PDUSB Device Enumeration		P
9.2	PD Specific Descriptors		P
9.2.1	USB Power Delivery Capability Descriptor		P



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Clause	Requirement + Test	Result - Remark	Verdict
9.2.2	Battery Info Capability Descriptor		P
9.2.3	PD Consumer Port Capability Descriptor		P
9.2.4	PD Provider Port Capability Descriptor		P
9.3	PD Specific Requests and Events		P
9.3.1	PD Specific Requests		P
9.4	PDUSB Hub and PDUSB Peripheral Device Requests		P
9.4.1	GetBatteryStatus		P
9.4.2	SetPDFeature		P
<b>10</b>	<b>Power Rules</b>		<b>P</b>
10.1	Introduction		P
10.2	Source Power Rules		P
10.2.1	Source Power Rule Considerations		P
10.2.2	Normative Voltages and Currents		P
10.2.3	Optional Voltages/Currents		P
10.2.4	Power sharing between ports		P
10.3	Sink Power Rules		P
10.3.1	Sink Power Rule Considerations		P
10.3.2	Normative Sink Rules		P





## Annex A Test Data

## USB Power Delivery

Compliance Test	Reference spec.	Result	Description
TEST.PD.PHY.ALL.01 Transmit Bit Rate and the Drift	EN IEC 62680-1-2 Cl. 5.8.4	Pass	
TEST.PD.PHY.ALL.02 Transmitter Eye Diagram	EN IEC 62680-1-2 Cl. 5.8.2	Pass	
TEST.PD.PHY.ALL.03 Collision Avoidance	EN IEC 62680-1-2 Cl. 5.7	Pass	
TEST.PD.PHY.ALL.04 Bus Idle Detection (AWG method)	EN IEC 62680-1-2 Cl. 5.7	Pass	
TEST.PD.PHY.ALL.04 Bus Idle Detection (2-Tone method)	EN IEC 62680-1-2 Cl. 5.7	Pass	
TEST.PD.PHY.ALL.05 Receiver Interference Rejection (AWG method)	EN IEC 62680-1-2 Cl. 5.8.6	Pass	
TEST.PD.PHY.ALL.05 Receiver Interference Rejection (2-Tone method)	EN IEC 62680-1-2 Cl. 5.8.6	Pass	
TEST.PD.PHY.ALL.06 Invalid SOP*	EN IEC 62680-1-2 Cl. 5.6.1	Pass	
TEST.PD.PHY.ALL.07 Valid SOP*	EN IEC 62680-1-2 Cl. 5.6.1	Pass	
TEST.PD.PHY.ALL.08 Incorrect CRC	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PHY.ALL.09 Receiver Input Impedance	EN IEC 62680-1-2 Cl. 5.8.6	Pass	
TEST.PD.PHY.PORT.01 Invalid Reset Signals	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.ALL.01 Corrupted GoodCRC	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PROT.ALL.02 Soft Reset and Hard Reset	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.ALL.03 Soft Reset Response	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.ALL.04 Reset Signals and MessageID	EN IEC 62680-1-2 Cl. 6.2.1	Pass	
TEST.PD.PROT.ALL.05 Unrecognized Message	EN IEC 62680-1-2 Cl. 6.4	Pass	
TEST.PD.PROT.ALL3.01 Get_Status Response	EN IEC 62680-1-2 Cl. 6.3.18	Pass	
TEST.PD.PROT.ALL3.02 Get_Manufacturer_Info Response	EN IEC 62680-1-2 Cl. 6.5.7	Pass	
TEST.PD.PROT.ALL3.03 Invalid Manufacturer Info Target	EN IEC 62680-1-2 Cl. 6.5.7	Pass	
TEST.PD.PROT.ALL3.04 Invalid Manufacturer Info Ref	EN IEC 62680-1-2 Cl. 6.5.7	Pass	
TEST.PD.PROT.ALL3.05 Chunked Extended Message Response	EN IEC 62680-1-2 Cl. 6.2.1	Pass	



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## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
TEST.PD.PROT.ALL3.06 ChunkSenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.18	Pass	
TEST.PD.PROT.ALL3.07 Security Messages Supported	EN IEC 62680-1-2 Cl. 6.5.8	Pass	
TEST.PD.PROT.ALL3.08 Get Revision Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.01 Get_Battery_Status Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.02 Invalid Battery Status Reference	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.03 Get_Battery_Cap Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.04 Invalid Battery Capabilities Reference	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.05 Get_Country_Codes Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.06 Get_Country_Info Response	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PROT.PORT3.07 Unchunked_Extended_Messages_ Supported	EN IEC 62680-1-2 Cl.6.4.2	Pass	
TEST.PD.PROT.SRC.01 Get_Source_Cap Response	EN IEC 62680-1-2 Cl. 6.3.8	Pass	
TEST.PD.PROT.SRC.02 Get_Source_Cap No Request	EN IEC 62680-1-2 Cl. 6.3.7	Pass	
TEST.PD.PROT.SRC.03 SenderResponseTimer Deadline	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SRC.04 Reject Request	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SRC.05 Reject Request Invalid Object Position	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SRC.06 Atomic Message Sequence - Request	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SRC.07 DR_Swap	EN IEC 62680-1-2 Cl. 6.6.5	Pass	
TEST.PD.PROT.SRC.08 VCONN_Swap Response	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.09 PR_Swap Response	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.10 PR_Swap - PSSourceOnTimer Timeout	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.11 Unexpected Message Received in Ready State	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SRC.12	EN IEC 62680-1-2 Cl. 6.6.5	Pass	



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## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
Get_Sink_Cap Response			
TEST.PD.PROT.SRC.13 PR_Swap ~C GoodCRC not sent in Response to PS_RDY	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SRC3.01 SourceCapabilityTimer Timeout	EN IEC 62680-1-2 Cl. 6.3.17	Pass	
TEST.PD.PROT.SRC3.02 SenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SRC3.03 Get_Source_Cap_Extended Response	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SRC3.04 Alert Response Source Input Change	EN IEC 62680-1-2 Cl. 6.3.13	Pass	
TEST.PD.PROT.SRC3.05 Alert Response Battery Status Change	EN IEC 62680-1-2 Cl. 6.4.1	Pass	
TEST.PD.PROT.SRC3.06 Soft_Reset Sent when SinkTxOK	EN IEC 62680-1-2 Cl. 6.2.1	Pass	
TEST.PD.PROT.SRC3.07 Get_PPS_Status Response	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PROT.SRC3.08 SourcePPSCCommTimer Deadline	EN IEC 62680-1-2 Cl.6.6.19	Pass	
TEST.PD.PROT.SRC3.09 SourcePPSCCommTimer Timeout	EN IEC 62680-1-2 Cl.6.6.19	Pass	
TEST.PD.PROT.SRC3.10 SourcePPSCCommTimer Stopped	EN IEC 62680-1-2 Cl.6.6.19	Pass	
TEST.PD.PROT.SRC3.11 GoodCRC Specification Revision Compatibility	EN IEC 62680-1-2 Cl.6.2.1	Pass	
TEST.PD.PROT.SRC3.12 FR_Swap Without Signaling	EN IEC 62680-1-2 Cl.6.3.19	Pass	
TEST.PD.PROT.SRC3.13 Cable Type Detection	EN IEC 62680-1-2 Cl.4.4	Pass	
TEST.PD.PROT.SRC3.14 Source Info	EN IEC 62680-1-2 Cl.6.3.23	Pass	
TEST.PD.PROT.SNK.01 Get_Sink_Cap Response	EN IEC 62680-1-2 Cl. 6.3.8	Pass	
TEST.PD.PROT.SNK.02 Get_Source_Cap Response	EN IEC 62680-1-2 Cl. 6.3.7	Pass	
TEST.PD.PROT.SNK.03 SinkWaitCapTimer Deadline	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SNK.04 SinkWaitCapTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.3	Pass	
TEST.PD.PROT.SNK.05 SenderResponseTimer Deadline	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SNK.06 SenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.2	Pass	



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## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
TEST.PD.PROT.SNK.07 PSTransitionTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.5	Pass	
TEST.PD.PROT.SNK.08 Atomic Message Sequence "C Accept	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.09 Atomic Message Sequence - PS_RDY	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.10 DR_Swap Request	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.11 VCONN_Swap Request	EN IEC 62680-1-2 Cl. 8.3.2	Pass	
TEST.PD.PROT.SNK.12 PR_Swap - PSSourceOffTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.5	Pass	
TEST.PD.PROT.SNK.13 PR_Swap - Request SenderResponseTimer Timeout	EN IEC 62680-1-2 Cl. 6.6.2	Pass	
TEST.PD.PROT.SNK.14 Valid Use of GoodCRC on Power up	EN IEC 62680-1-2 Cl. 6.8	Pass	
TEST.PD.PROT.SNK3.01 Get_Source_Cap_Extended	EN IEC 62680-1-2 Cl. 6.3.17	Pass	
TEST.PD.PROT.SNK3.02 Alert Response Source Input Change	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SNK3.03 Alert Response Battery Status Change	EN IEC 62680-1-2 Cl. 6.4.6	Pass	
TEST.PD.PROT.SNK3.04 Soft_Reset Sent Regardless of Rp Value	EN IEC 62680-1-2 Cl. 6.3.13	Pass	
TEST.PD.PROT.SNK3.05 Sink PPS Normal Operation	EN IEC 62680-1-2 Cl. 6.4.1	Pass	
TEST.PD.PROT.SNK3.06 Revision Number Test	EN IEC 62680-1-2 Cl. 6.2.1	Pass	
TEST.PD.PROT.SNK3.07 GoodCRC Specification Revision Compatibility	EN IEC 62680-1-2 Cl. 6.3.1	Pass	
TEST.PD.PROT.SNK3.08 GotoMin Message	EN IEC 62680-1-2 Cl. 6.3.2	Pass	
TEST.PD.VDM.SRC.01 Discovery Process and Enter Mode	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SRC.02 Invalid Fields - Discover Identity	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.01 Discovery Process and Enter Mode	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.02 Exit Mode without Entering	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.05 DR Swap in Modal Operation	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.SNK.06 Structured	EN IEC 62680-1-2 Cl. 6.4.4	Pass	



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## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
VDM Revision Number Test			
TEST.PD.VDM.SNK.07 Unrecognized VID in Unstructured VDM	EN IEC 62680-1-2 Cl. 6.4.4	Pass	
TEST.PD.VDM.CBL.01 Discovery Process and Enter Mode	EN IEC 62680-1-2 Cl. 6.4.4	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'
TEST.PD.VDM.CBL3.01 Revision Number Test	EN IEC 62680-1-2 Cl. 6.4.4	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'
TEST.PD.PS.SRC.01 Multiple Request Load Test	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.02 PDO Transitions	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.03 Initial Source PDO Transition Post PR Swap	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.04 Source Behavior with Capability Mismatch bit	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SRC.05 Source Hard Reset Test	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SNK.01 PDO Transitions As Sink	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SNK.02 Initial Sink PDO Transitions Post PR Swap	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.PS.SNK.03 Multiple Request Load Test Post PR Swap	EN IEC 62680-1-2 Cl. 8.3.3	Pass	
TEST.PD.EPR.SRC3.01 EPR Entry Process - UUT as VCONN Source	EN IEC 62680-1-2 Cl. 6.4.9, 6.4.10	Pass	
TEST.PD.EPR.SRC3.02 EPR Entry Process - Tester as VCONN Source	EN IEC 62680-1-2 Cl. 6.4.9	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.03 EPR Entry failed - EPR Mode Capable bit not set in RDO	EN IEC 62680-1-2 Cl. 6.4.9	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.04 EPR Entry failed "C Tester as VCONN source	EN IEC 62680-1-2 Cl. 6.4.9	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.05 EPR Entry Failed -	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with





## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
EPR_Mode(Reserved) message			'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.06 Entry Failed - Cable not EPR capable	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.07 EPR Entry Failed - Interrupted by EPR_Get_Sink_Cap message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.08 EPR mode - Request message response	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.09 EPR mode - EPR_Get_Source_Cap message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.10 SPR mode - EPR_Get_Source_Cap message	EN IEC 62680-1-2 Cl. 6.4.9, 6.4.10	Pass	
TEST.PD.EPR.SRC3.11 EPR Mode Exit by EPR_Mode_Exit message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.12 EPR mode - Get_Source_Cap message and Request message response	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.13 EPR mode - tSourceEPRKeepAlive Timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.14 EPR mode - EPR Request with incorrect copy of PDO	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SRC3.15 DiscoverIdentityCounter and DiscoverIdentityTimer check for SOP	EN IEC 62680-1-2 Cl. 6.6.15	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.PS.EPR.SRC3.01 Multiple EPR Request Load Test	EN IEC 62680-1-2 Cl. 7.1	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.PS.EPR.SRC3.02 PDO Transitions in EPR Mode	EN IEC 62680-1-2 Cl. 7.3	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Src' = 'YES'.
TEST.PD.EPR.SNK3.01 EPR Entry	EN IEC 62680-1-2 Cl.	Pass	



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## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
Process - Success	6.4.10		
TEST.PD.EPR.SNK3.02 EPR Entry Failed - tEnterEPR timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.03 EPR Entry Failed by EPR_Mode(Enter failed) message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.04 EPR Fail due to tFirstSourceCap timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.05 EPR Exit due to incorrect EPR Source Cap	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.06 EPR Exit due to EPR_Mode Exit message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.07 EPR_Fail_by_Wait_Message	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.08 EPR Exit due to Source Cap	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.09 EPR Entry failed due to SourceCap	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.EPR.SNK3.10 EPR Exit fail due to SinkWaitCapTimer timeout	EN IEC 62680-1-2 Cl. 6.4.10	N/A	This is only applicable for any PUT with 'EPR_Supported_As_Snk' = 'YES'.
TEST.PD.FRS.SRC3.01 Normal Conditions	EN IEC 62680-1-2 Cl. 7.1.13	N/A	This is not applicable because 'Power_Interruption_Available' is 'No Interruption Possible'.
TEST.PD.FRS.SRC3.02 Provider Only Checks	EN IEC 62680-1-2 Cl. 7.1.13	N/A	Valid PD_PORT_TYPE for this TD : "Provider Only"
TEST.PD.FRS.SRC3.03 GoodCRC Not Sent In Response To Accept	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_CURRENT_AS_INITIAL_SOURCE = FR_Swap not supported.
TEST.PD.FRS.SRC3.04 GoodCRC Not Sent In Response To PS_RDY	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_CURRENT_AS_INITIAL_SOURCE = FR_Swap not supported.



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## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
TEST.PD.FRS.SRC3.05 PSSourceOnTimer Deadline	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_C URRENT_AS_INITIAL_SOURCE = FR_Swap not supported.
TEST.PD.FRS.SRC3.06 PSSourceOnTimer Timeout	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	N/A	This test is not applicable when FR_SWAP_REQD_TYPE_C_C URRENT_AS_INITIAL_SOURCE = FR_Swap not supported.
TEST.PD.FRS.SNK3.01 Normal Conditions	EN IEC 62680-1-2 Cl. 7.2.10	Pass	
TEST.PD.FRS.SNK3.02 Normal Conditions, Consumer Only	EN IEC 62680-1-2 Cl. 7.2.10	N/A	Valid PD_PORT_TYPE for this TD : "Consumer Only"
TEST.PD.FRS.SNK3.03 FR_Swap Not Sent	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.04 SendResponseTimer Timeout	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.05 PSSourceOffTimer Deadline	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.06 PSSourceOffTimer Timeout	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.FRS.SNK3.07 GoodCRC Not Sent in Response to PS_RDY	EN IEC 62680-1-2 Cl. 7.1.13 EN IEC 62680-1-2 Cl. 8.3.2.7	Pass	
TEST.PD.USB4.DRST.01 Data_Reset command response of UFP UUT	EN IEC 62680-1-2 Cl. 6.3.14	Pass	
TEST.PD.USB4.DRST.02 Data_Reset command response of UFP UUT, Invalid Sequence	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.03 Data_Reset command response of UFP UUT Sourcing Vconn	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.04 Data_Reset command response of UFP UUT Sourcing Vconn - Invalid Sequence	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.05 Data_Reset command response of DFP UUT Sourcing Vconn	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.DRST.06 Data_Reset command response of	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' =



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## Annex A Test Data

Compliance Test	Reference spec.	Result	Description
DFP UUT, UFP Sourcing Vconn			'YES'.
TEST.PD.USB4.DRST.07 Data_reset command response of DFP UUT, UFP Sourcing VconnVCONNDISCHARGE timer expiry check	EN IEC 62680-1-2 Cl. 6.3.14	N/A	This is only applicable when VIF field 'Data_Reset_Supported' = 'YES'.
TEST.PD.USB4.EUSB.01 Enter_USB Message response of UFP UUT-Valid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any PUT with 'USB4_UFP_SUPPORTED' = 'YES'.
TEST.PD.USB4.EUSB.02 Enter_USB Message response of UFP UUT-Invalid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any PUT with 'USB4_UFP_SUPPORTED' = 'YES'.
TEST.PD.USB4.EUSB.03 Enter_USB Flow-USB4 DFP Connected to USB4 UFP using an Active Cable	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any device with 'USB4_DFP_Supported' = 'YES'
TEST.PD.USB4.EUSB.04 DR_Swap after Entering USB4 Mode entry	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any device with 'USB4_DFP_Supported' = 'YES'
TEST.PD.USB4.EUSB.05 tEnterUSBWait check for USB4 DFP	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This is only applicable for any device with 'USB4_DFP_Supported' = 'YES'
TEST.PD.USB4.CBL.01 Enter_USB command response of cable UUT-Valid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'
TEST.PD.USB4.CBL.02 Enter_USB command response of Cable UUT-Invalid Mode	EN IEC 62680-1-2 Cl. 6.4.8	N/A	This test is only applicable for any device with 'Captive_Cable' is 'YES' and 'Captive_Cable_Is_Emarked' = 'YES'





## Annex B

## Photo Documentation



Figure 1 External view



Figure 2 External view



## Annex B

## Photo Documentation



Figure 3 External view



Figure 4 External view





## Annex B

## Photo Documentation



Figure 5 External view



Figure 6 External view





## Annex B

## Photo Documentation



Figure 7 Internal view



Figure 8 Internal view







## Annex B

## Photo Documentation



Figure 9 Internal view

--- END OF TEST REPORT ---

