

Document Number:		Revision:	02
Title:	JBL Charge 6		

JBL Charge 6

Product Requirement Document

Document Number: TBC

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Document Release Record				
Revision	Release Date	Change Description	ECO NO.	Updated by
01	2023-04-13	Initial released version 1		HT Choo
02	2023-05-15	Updated: <ul style="list-style-type: none"> - Google Fast Pair Service - Removed the "multi-drop proof" requirement. - Fast Charge out for iPhone 14 Pro 		HT Choo
03	2023-11-8	Updated: <ul style="list-style-type: none"> - Tweeter to 1pc. (10W) - Renaming "SoundBoost" to "Playtime Boost", no change in feature - Fast Charge out for iPhone 15 - PVC-Free wirings & cables (Sustainability effort), including USB Charging cable. 		HT Choo
04	2023-11-8	Updated: <ul style="list-style-type: none"> - Being Mono AE package: Removed "Sound direction: Improve soundstage by 30% compared to Charge 5" 		HT Choo
05	2024-3-15	Updated: <ul style="list-style-type: none"> - From IP68 to IP67 - Speaker USB Port to pass RED, IEC 62680-1-3 & IEC 62680-1-2 requirement. - USB CTC (Type C-to-C) charging cable to pass VW-1 Flame retardant requirement. - SOP with service replaceable battery with mechanically design-in for future CR for consumer replaceable battery - QSG reference (Go4 QSG) - 3rd party logos required on packaging. <ul style="list-style-type: none"> o Bluetooth v5.4 o SCS (Scientific Certification Systems), o FSC Certified, o Soy-Ink Printing, o Energy Star Certified - Playtime Boost EQ playtime: up by 20% of the standard playtime - Support Bluetooth v5.4 & AAC from SOP - 1x handle strap (matching color with speaker) 		HT Choo

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06		Updated for Gate1: <ul style="list-style-type: none"> - No PVC-Free wirings & cables (Sustainability effort), for RFQ, excluding USB cable. - 9 colors SKUs 		
07		Updated for Gate2: <ul style="list-style-type: none"> - Supports PVC-Free, including USB cable and strap. 		
08		Updated for Gate2: Sustainability: <ul style="list-style-type: none"> - All material should meet the following sustainability requirements: <ul style="list-style-type: none"> o PVC-Free o SCS certification o PCF calculation 		

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Target and insight

The JBL Charge series has sold more than 14.8 million units for the past 4 years. Of which more than 5.0 million units of Charge 5 alone were shipped in 2022 since its SOP in 2021. We will develop the next generation of Charge series: JBL Charge 6, with the latest Bluetooth v5.4 profile, improved acoustic output power and playtime, and IP67 waterproof and dustproof, featuring the new JBL signature powerline design. It will also use eco-friendly materials like PCR fabric and plastic for speaker body.

Features & Benefits

JBL Pro Sound

- Louder with more powerful drivers (30W Woofer x1 and 10 W tweeter x1)
- External sound benchmark: Refer to Acoustic Competitive benchmark section.
- Internal sound benchmark: Refer to Acoustic Competitive benchmark section.

Designed for portability.

- More stability with new standing feet design
- Light weight ~1kg vs Charge 5's 0.9kg
- **Service** replaceable battery design could enable **service personnel** to replace its expired or defective battery easily without compromising its waterproof/dustproof integrity at SOP and mechanically design-in for future CR (Change request) for consumer replaceable battery with minor tooling modifications.

Bluetooth Connectivity

- Bluetooth v5.4 LE Audio profile, can support new features such as Auracast, LC3 and AAC codec.
- Google Fast Pair Service enabled (for all alternative source Bluetooth chipsets)

Battery play time

- Up to 24 hours playtime via Bluetooth

IP67 Waterproof and Dustproof and Drop proof

- IP67 waterproof and dustproof

Multi speakers connection

- Auracast for pairing with speakers with the same LE audio platform compatible JBL speakers pairing under Bluetooth range (Boombox 3 Wi-Fi, Boombox 3, Xtreme 4, Charge 5 Wi-Fi, Pulse 5, Flip 7, Clip 5, Go4)

USB charging port

- The speaker comes with dedicated PVC-Free USB Type CTC charging cable for fast charging.
 - o 3.0hrs for a full charge
 - o Fast charge-in: 10 mins charging for 1.5hrs play time
 - o Fast Charge out for iPhone 15 (Charge 10min for 20% iPhone 15 battery)
- USB port delivers full power output 3A
- USB Port to pass EU RED, IEC 62680-1-3 & IEC 62680-1-2 requirement.

Power supply

- Expired or defective battery can be easily replaced by any repairers with common tools.

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JBL Portable APP

- Manage Auracast feature with compatible JBL speakers and speakers using the same LE audio platform
- User can setup L/R channels when two Charge 6 are connected.
- ON/OFF speaker feedback sound
- Able to OTA upgrade Charge 6 (< 2 minutes)
- Speaker renaming
- Multiple EQ pre-sets including Playtime Boost (up by 20% of the standard playtime)

Sustainability:

- All material should meet the following sustainability requirements:
 - o PVC-Free
 - o SCS certification
 - o PCF calculation

Master Feature List

What's in the box

Reference	Item	Requirement
1	1 x JBL Charge 6	Mandatory
2	1 x USB Type C-C Charging Cable (PVC-Free USB CTC (Type C-to-C) charging cable to pass VW-1 Flame retardant requirement.)	Mandatory
3	1 x Safety sheet & Warranty card (Reference JBL Charge 5 Wi-Fi)	Mandatory
4	1 x Quick start guide (Reference JBL Charge 5 Wi-Fi)	Mandatory
5	1x PVC-Free handle strap (matching color with speaker)	Mandatory

Functional description

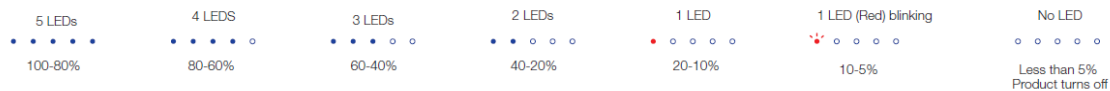
Reference	Item	Requirement
1	Bluetooth AVRCP for volume synchronization with smart devices	Mandatory
2	Bluetooth A2DP and SBC codec for streaming	Mandatory
3	Power key <2 second Press to turn product on and off	Mandatory
4	Bluetooth key	Mandatory

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	<ul style="list-style-type: none"> - JBL Bluetooth LED <ul style="list-style-type: none"> o White <ul style="list-style-type: none"> ▪ Blinking – Pairing mode ▪ On – speaker connected 	
11	JBL sound tone feedback for the following functions (same as Charge 5): <ul style="list-style-type: none"> - On - Off - Bluetooth pairing - Auracast pairing (reference Charge 5's PartyBoost) - Maximum Volume - Connection successful 	Mandatory
12	Battery indicator (Same as Charge 5) <ul style="list-style-type: none"> - Go off after 1 min - 5 white LEDs plus 1 red LED 	Mandatory

Battery Level Indication Battery Level (Constantly lighting)



Connectivity I/O

Reference	Item	Requirement
1	1 x Power key	Mandatory
2	1 x Bluetooth key	Mandatory
3	1 x Play/Pause key	Mandatory
4	1 x JBL Auracast key	Mandatory
5	2 x Volume key +/-	Mandatory
6	1 x USB C port for charge in & charge out, firmware upgrade and service (USB Port & PVC-Free charging cable to meet RED, IEC 62680-1-3 & IEC 62680-1-2 requirement.)	Mandatory

Bluetooth Feature list

Reference	Item	Requirement
1	Wake up from Bluetooth (within 30 minutes)	Mandatory

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2	Auto-pairing mode	Mandatory
3	Auto re-connect	Mandatory
4	Standby mode (after 30mins AC powered, last for an hour only)	
5	Multi-phone memory (8 devices)	Mandatory
6	Multi-device connection (up to 2 devices)	
7	Tone Feedback (refer to Boombox2)	Mandatory
8	Multi - speaker connection (Auracast, 1 to N)	Mandatory
9	Volume sync and play control	Mandatory
10	Support GATT connection	Mandatory
11	LE audio ready and support multi sources connection	Mandatory
12	App - Auracast - Renaming - Firmware upgrade - EQ adjustment	Mandatory

Demo Mode Behavior

Reference	Item	Requirement
1	The product SW should have embedded demo mode.	Mandatory
2	Can enter or exit demo mode by press and hold Play & Bluetooth buttons together	Mandatory
3	When device in demo mode <ul style="list-style-type: none"> 1. All buttons are disabled 2. Volume default in max. level 3. Device will power on automatically when plug into power; plug out the power will shut down the device 4. Follow the standard of Smart Audio demo mode behaviors 	Mandatory

Acoustic Performance

Acoustic target

Rated Power Output:

- 1x30W woofer + 1x10W Tweeter

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Acoustic Competitive benchmark

Brand	Model	Retail price
Sony	SRS-XE300	\$199
JBL	Charge 5	\$179

User Interface

Panel UI

Reference	Control functions	Comments
1	Power	Short press to switch speaker on and off(1 second)
2	Volume up	Turn volume up
3	Volume down	Turn volume down
4	Play/Pause	During music playback: short press to play or pause music
5	Bluetooth	Short press to enter pairing mode
6	Auracast	Short press to enter pairing mode

Panel Display

Reference	Indicator Requirements	Comments
1	Battery level LED	5 white LEDs + 1 red LED to show battery level
2	Power LED	White – product is on
3	Bluetooth LED	White Blink – BT Paring mode White On – BT Connected
4	Auracast LED	White blinking – Searching for nearby speakers White on – Speakers connected
5	Volume up	Turn volume up
6	Volume down	Turn volume down

Packaging Requirements

Sales regions and language requirements

Reference	SKU	Gift box Language requirement	QSG Language requirement
1	North America	English French Spanish	English French Spanish

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2	EMEA (Also for Brazil, India and Russia)	English French Spanish German Italian Russian Brazilian Portuguese	Brazilian Portuguese German Italian Dutch Norwegian Finnish Russian Swedish Danish Japanese Polish Korean Traditional Chinese Simplified Chinese Bahasa Hebrew
3	APAC	English Japanese Korean	
4	China	Simplified Chinese English	
5	Japan	English Japanese	
6	India	English Follow current standard	
7	Brazil	English Follow current standard	

Product should be certified for sales in the following countries.

Reference	SKU	Country of sale
1	North America	North America Canada Taiwan
2	EMEA	United Kingdom France Spain Germany Italy Holland Portugal Norway Finland Denmark Sweden Poland Hong Kong Russia
3	APAC	Indonesia Singapore Malaysia Thailand Myanmar Vietnam Philippines

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		Taiwan Korea Australia New Zealand
4	China	China
5	Japan	Japan
6	Brazil	Brazil
7	India	India

Description

Use environmentally friendly PCR materials with reference to Charge 5 Wi-Fi.

In addition, supports PVC-Free, including PVC-Free USB Charging cable and strap.

Packaging Dimensions

Reference to JBL Charge 5, as compact as possible.

Follow JBL design and align with other JBL products.

Master Carton Quantity

4 units per master carton

3rd party logos required on packaging.

1. Bluetooth v5.4,
2. SCS (Scientific Certification Systems),
3. FSC Certified,
4. Soy-Ink Printing,
5. Energy Star Certified

Printed Material requirements

Reference	Type	Description
1	Quick start guide	Reference Charge 5 & Go4 (especially for "MULTI-SPEAKER CONNECTION", Auracast)
2	Safety Sheet	Reference Go4
3	Warranty card	Reference Go4

Industrial Design (surface files)

Available in separate document from design lead

Rendering for information (large version shown for reference)

Available in separate document from design lead

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CMF requirements (Color, Material, Finish)

Number of CMF variations required:

1. Black
2. Blue
3. Red
4. Purple
5. Camouflage
6. White
7. Pink
8. Sand
9. Funky Black

Note: (for Customization SKU): Fabric bracket must be interchangeable with all ODM's housing

Reference Charge 5: <https://www.jbl.com/personalize-lister.html?category=speakers>

Market Name

Brand	JBL
Market Name	Charge 6