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TEST REPORT UNDER THE PM STANDARD

CUKTECH 15 SE Power Bank 20000 mAh

Model PB200, Elegant Grey

83 % good
249 of 300 points

TEST RESULT

Test number	2609000898	Product group	Chargers / Portable Power Banks
Brand	CUKTECH	Test period	09/2026
Model	PB200	Valid from	12.09.2026
Offer price	EUR 43.99	Type of test	Editorial, bought at retail

Type of test. This states only who initiated and paid for the test. It has no bearing on procedure, method or result.

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Test framework

Product tested	CUKTECH 15 SE Power Bank 20000 mAh — Model PB200, Elegant Grey
Test number	2609000898
Test sample	One unit, factory-new, delivered unopened
Source	Bought at retail, not commissioned by the manufacturer
Test period	09/2026 • five-day test cycle
Offer price	EUR 43.99 during the test period
What was tested	Functional testing in everyday use. Not included: long-term testing, chemical analysis and testing under controlled climate conditions.

Method

The rating follows the PM Standard: ten test parameters grouped in three rating areas. The weighting is fixed before testing begins and is the same for every product.

For each parameter, a category benchmark is set before the sample is rated. Every point deducted is tied to a named finding.

Test items that do not apply are treated as neutral and are removed from the calculation together with their weighting.

Area	Points	Share
A Product Characteristics	100	33.3 %
B Use and Safety	120	40.0 %
C Feedback and Service	80	26.7 %
Total	300	100 %

Rating key

Percent	Rating	Certification
100 – 95 %	● excellent	qualifies
94 – 85 %	● very good	qualifies
84 – 75 %	● good	qualifies
74 – 65 %	● satisfactory	does not qualify
64 – 0 %	● poor	does not qualify

How this report is organised

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Technical data

Model	PB200
Cell type	Lithium-ion
Cell energy	72 Wh / 73.44 Wh (rated/typical), 14.4 V
Rated capacity	11,000 mAh at 5 V = 3 A
Cells	8 pieces, 41NR19/66-2, 4S2P layout
Input IN1 (Type-C1)	5/9/12/15 V = 3 A, 20 V = 3.25 A, 65 W max.
Output OUT1 (Type-C1)	20 V = 3.25 A, 5-11 V = 6.1 A, 67 W max.
Output OUT2 (Type-C2)	5/9 V = 3 A, 5-11 V = 3 A, 33 W max.
Output OUT3 (USB-A1)	5/9 V = 3 A, 5-11 V = 3 A, 33 W max.
Combined output	85 W across several ports
Charging protocols	PD 3.0, PPS, QC 4, AFC, FCP, SCP, UFCS, HyperCharge
Dimensions	152 x 52 x 44.4 mm
Mass	504 g, weighed on the sample
Housing	plastic, ribbed back panel
Display	two digits, charge level in percent
Operating temperature	5 to 35 °C
Conversion efficiency	74.8 % at 5 V = 3 A, maker figure
Charging time	around 105 min with a 65 W adapter
Colour	Elegant Grey

In the box

- CUKTECH 15 SE power bank
- USB-C cable, 100 cm, 240 W / 6 A
- User manual in twelve languages
- Safety notes on a separate card

Manufacturer

Company	CUKTECH Technology Co., Ltd.
Address	Jiangning District, Nanjing, China
Manual	Version V1.0
Rating plate	SN A0320000, read on the device

Advertised features

FORMAT	65 W fast charging for laptops and smartphones
FUNCTION	MacBook Air to 55 percent in 30 minutes
FEATURES	Self-charge in 1 hour 40 minutes with a 65 W adapter
ACCESS	Charging three devices at the same time
PERFORMANCE	Compatible with PD, PPS, QC, FCP and SCP
OPERATION	VO flame-resistant shell with nine layers of protection
SAFETY	Tested to CE, CB, FCC SDoC, NRTL and Chemical

Where it stands in its class

Each bar shows where the test sample sits within the range that is typical for this product group. A full bar means the top of the class, not the best possible.

Efficiency		89 % of a 69-89 % class band
Rated capacity at 5 V		11,000 of 12,000-13,500 mAh
Single-port output		65 W of 22.5-140 W
Combined output		85 W of 22.5-130 W
Input power		65 W of 18-165 W
Self-charge time		105 min of 96-156 min
Mass		504 g of 455-600 g
Ports		3 of the usual 2-3
Charging protocols		8 found, 3-5 is usual
Surface temperature		40 °C, threshold 45 °C
Price position		43.99 of EUR 27.20-83.00

Maker website and rating plate disagree

The field Rated Capacity carries different values on cuktech.com and on the rating plate of the sample. The website gives the cell capacity at 3.6 V, the plate gives the delivered rated capacity at 5 V. The plate is taken as the basis because it is fixed to the sample itself.

Item	cuktech.com	Rating plate PB200
Rated Capacity	20,000 mAh	11,000 mAh at 5 V
Reference voltage	3.6 V	5 V
Cell energy	72 Wh	72 Wh / 73.44 Wh

Test environment

Location	indoor workplace, 21 to 23 °C
Adapter	PD adapter, 65 W
Charging cable	supplied USB-C cable, 100 cm, 240 W
Comparison cables	three third-party USB-C cables on hand
Scale	kitchen scale, 1 g resolution
Surface	hard table top, no damping
Period of use	five days in practical use

What the rating is based on

Source	Used for	Applies to
Test sample	Visual, tactile and functional checks, measurements	all parameters
Manufacturer specification	technical values, conformity	parameters 1 to 6
Category benchmark	classification of measured values, set before the test	all parameters
Market observation	price level, feature comparison	parameter 10
Customer reviews	synopsis of published reviews	parameter 8

In all other parameters, only what was found on the test sample or derived from technical data is rated.

Procedure

- STEP 1 Intake and visual check.** Packaging, box contents and rating plate recorded, housing and edges felt over.
- STEP 2 Material check.** Magnet run along side wall and base, tap test taken at several points of the housing.
- STEP 3 Size and mass.** Edge lengths taken with a ruler, device weighed on the kitchen scale without accessories.
- STEP 4 Charging run.** Charged from 0 to 100 percent on a 65 W adapter, time and readout progress logged.
- STEP 5 Cable tolerance.** Three third-party USB-C cables plugged in turn, start behaviour of the charge observed.
- STEP 6 Continuous use.** Phone, tablet and notebook charged over five days, readout and warming followed.

Test items not applicable

4 test items did not apply to this product and were treated as neutral. They cause no deduction.

Test item	Reason
Wireless power transfer	design carries no induction coil
Weather resistance	intended for dry indoor use only
Adapter in the box	not customary in this category
Consumables	the product needs none

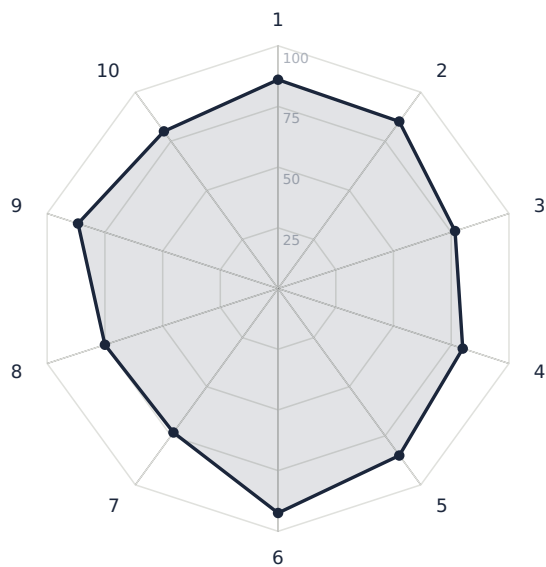
A feature the design does not provide is not a defect. It is neither rated nor weighted.

The ten test parameters

No.	Test parameter	Score	Points	Share
1	Build Quality		43 / 50	86 %
2	Design		17 / 20	85 %
3	Size & Weight		23 / 30	77 %
4	Functionality		32 / 40	80 %
5	Ease of Use & Suitability		34 / 40	85 %
6	Safety		37 / 40	92 %
7	Advertising Claims		11 / 15	73 %
8	Customer Feedback		15 / 20	75 %
9	Packaging & Labelling		13 / 15	87 %
10	Value for Money		24 / 30	80 %



Parameter profile



Reading the profile

The profile is slightly uneven. Most parameters sit close together, a few fall noticeably behind.

The average across all ten parameters is **82 percent**. Noticeably below this average: **Advertising Claims**.

A dip on one axis affects the overall result only in proportion to the weight of its rating area. A weak parameter in area B counts for more than the same value in area C.

The axis starts at zero; all values are shares of the points available. The digits match the numbering of the test parameters.

Result by rating area

Area	Points	Achieved	Applies to
A Product Characteristics	83 / 100	83.0 %	33.3 %
B Use and Safety	103 / 120	85.8 %	40.0 %
C Feedback and Service	63 / 80	78.8 %	26.7 %
Overall	249 / 300	83.0 %	100 %

Areas side by side

A Product Characteristics		83.0 %
B Use and Safety		85.8 %
C Feedback and Service		78.8 %

Key figures

STRONGEST RESULT 92 % Safety	WEAKEST RESULT 73 % Advertising Claims	SPREAD 19 percentage points between strongest and weakest	AVERAGE 82 % across all ten parameters
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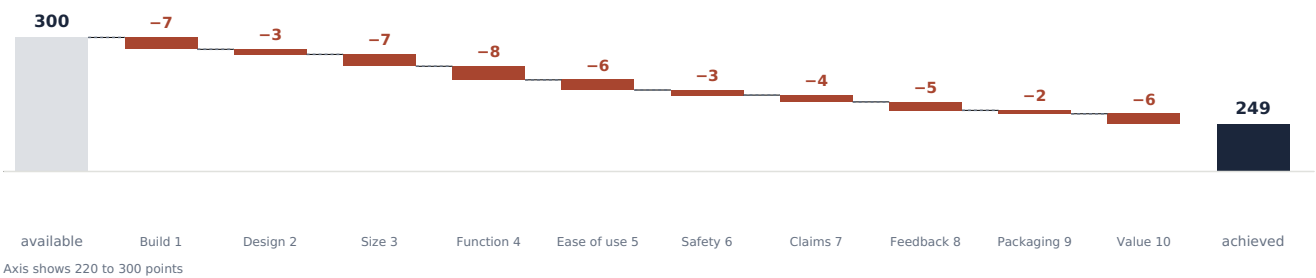
The bar marks the measured value; the grey band marks the range of the category benchmark. All axes start at zero. How the values were obtained is described in chapter 3.

Test item	Test sample	Benchmark	Position	Assessment
Usable energy	64 Wh of 72 Wh	class 69 to 89 percent		above standard
Rated capacity at 5 V	11,000 mAh	class 12,000 to 13,500 mAh		below standard
Single-port output	65 W, peak 67 W	class 22.5 to 140 W		within standard
Combined output	85 W	class 22.5 to 130 W		within standard
Input power	65 W	class 18 to 165 W		within standard
Self-charge time	105 min	class 96 to 156 min		within standard
Mass	504 g	class 455 to 600 g		within standard
Mass per 1,000 mAh	25.2 g	mark up to 25 g		just above
Dimensions	152 x 52 x 44.4 mm	enclosed volume 0.35 litre	—	no class figure
Surface temperature	40 °C	threshold 45 °C		within standard
Charging protocols	8 found	PD, PPS and QC usual		above standard
Ports	2 x USB-C, 1 x USB-A	class 2 to 3		within standard
Cell energy	72 Wh	cabin limit 100 Wh		met
Energy price	EUR 0.61/Wh	class EUR 0.38 to 0.92/Wh		mid-field
Price in test period	EUR 43.99	class EUR 27.20 to 83.00		mid-field

Notes on the measurements

Usable energy. The 64 Wh figure comes from a third-party measurement by a trade outlet. No discharge measurement of our own was available. The maker states 74.8 percent conversion efficiency at 5 V; that figure refers to charge in milliampere-hours, not to energy. **Power sharing.** The figures on how output is shared across ports come from the maker specification and a third-party measurement. No measurement of our own with two devices connected at once was available. **Capacity figure.** 20,000 mAh applies at a cell voltage of 3.6 V and equals 72 Wh. 11,000 mAh applies at 5 V on the output. The difference is largely a change of reference voltage, not a loss.

Where the points were lost



Of 300 points available, 51 were lost to named findings. Each deduction is tied to a finding in the rating section.

How the result is calculated

The three rating areas enter the overall result with 100, 120 and 80 of 300 points. The weighted percentage determines the rating.

Area	Achieved	Available	Percent
A · Product Characteristics	83	100	83.00 %
B · Use and Safety	103	120	85.83 %
C · Feedback and Service	63	80	78.75 %
Total	249	300	—

$$(83.00 \times 100 + 85.83 \times 120 + 78.75 \times 80) \div 300 = \mathbf{83.00 \text{ percent}}$$

83.00 percent corresponds to the rating “good” on the rating key.

Overall result

83 %

TEST RESULT

good

83.00 percent · 249 of 300 points

Qualifies for certification

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Test number	2609000898
Test date	12.09.2026
Test procedure	PM Standard, ten test parameters
Type of test	Editorial, bought at retail

Tested and approved on 12.09.2026

Prüfmagazin, Quality Testing
Frankfurt am Main, Germany

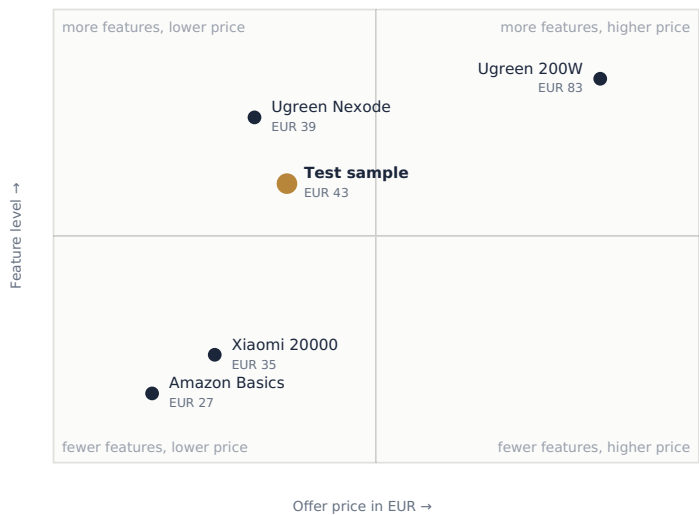


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Competing products

Product	Price	Key specs	Source
UGREEN Nexode 130W	EUR 39.95	20,000 mAh, 100 W on C1, 480 g	price index 09/26
Xiaomi Power Bank 20000	EUR 35.00	20,000 mAh, 22.5 W, 455 g	lab test 04/26
Amazon Basics 20000	EUR 27.20	20,000 mAh, 20 W, three ports	retailer data 09/26
Test sample	EUR 43.99	20,000 mAh, 65 W on C1, 504 g	offer price

Price versus features



Reading the chart

The horizontal axis shows the offer price, the vertical axis the feature level. The test sample is highlighted.

The axes cover only the range in which the compared products actually sit, not the whole market. A dot far to the right means a higher price within this group, not expensive in absolute terms.

The feature axis weighs single-port output, port count, display and measured efficiency. Full means the upper end of the class.

How the offer is priced

Only devices with 20,000 mAh rated capacity are compared. The gap states the premium or discount of the test sample.

Cheapest device in the class	EUR 27.20	+EUR 16.79
Nearest laptop-capable rival	EUR 39.95	+EUR 4.04
Mean of the three rivals	EUR 34.05	+EUR 9.94
Dearest device in the class	EUR 83.00	–EUR 39.01

PRICE PER WATT-HOUR • TEST SAMPLE

EUR 0.61

PRICE PER WATT-HOUR • MARKET LEVEL

EUR 0.38 – 0.92

Prices change. All figures are dated snapshots. The report shows the arithmetic and makes no purchase recommendation.

RATING AREA A

Product Characteristics

83 / 100

83.0 % achieved · weight 33.3 %

1 Build Quality

Do materials, workmanship and finish look well made and suited to the intended use?

**43** / 50
86 %

FINDINGS

- Housing entirely plastic, magnet test on the sample negative
- 504 g weighed against 489.4 g stated by the maker, 2.9 % apart
- Eight cells 41NR19/66-2 in 4S2P, cell format 19 x 66 mm
- Surface peaks at 40 °C under 65 W, class limit is 45 °C
- Rating plate embossed, Wh figure and serial number stay legible

LIMITATIONS

- Plastic shell where the Xiaomi 20000 of the same class uses aluminium
- V0 flame rating is a maker claim, not verifiable on the sample

2 Design

Are shape, colour and overall appearance coherent and appropriate to the function?

**17** / 20
85 %

FINDINGS

- Column shape 152 x 52 x 44 mm, ribbed back set off in black
- Two-digit percentage readout instead of a four-step LED row
- Rounded edges, no protruding parts anywhere on the housing
- Silver-grey finish, factory colour name Elegant Grey

LIMITATIONS

- Plastic in a metal look, presence stays behind metal-cased rivals



Size & Weight

Are dimensions, weight and footprint in sensible proportion to the type of product?



23 / 30
77 %

FINDINGS

- 504 g for 72 Wh, class range runs 455 to 600 g
- 25.2 g per 1,000 mAh, the mark for a good figure sits at 25 g
- 152 x 52 x 44.4 mm, enclosed volume 0.35 litre
- Footprint 52 x 44 mm, the Xiaomi 20000 takes 148 x 74 mm

LIMITATIONS

- 504 g above the stated figure and above the class best of 455 g
- 44.4 mm depth rules the trouser pocket out as a carrying place

RATING AREA B

Use and Safety

103 / 120

85.8 % achieved · weight 40.0 %

4 Functionality

Does the product do its core job reliably and with adequate performance?**32** / 40

80 %

FINDINGS

- USB-C1 holds 65 W continuously, undivided even when ports share
- Combined output 85 W across three ports, class 22.5 to 130 W
- 64 Wh usable of 72 Wh, 89 %, class range 69 to 89 %
- Eight charging protocols confirmed, among them PPS and HyperCharge
- Self-charge in 105 min at 65 W PD, class range 96 to 156 min

LIMITATIONS

- Rated capacity 11,000 mAh at 5 V, class runs 12,000 to 13,500 mAh
- OUT2 and OUT3 split 20 W between them once OUT1 is in use

5 Ease of Use & Suitability

Can the product be set up and used in everyday life without special effort?**34** / 40

85 %

FINDINGS

- Percentage readout in single steps, called up by one button
- Low-current mode by double click for earbuds and small devices
- Bidirectional Type-C port, one socket for charging and discharging
- Supplied cable 100 cm, 240 W, 6 A, required above 3 A

LIMITATIONS

- Third-party cables start charging only after repeated re-plugging
- An 18 W adapter stretches a full charge to around 5 hours

6 Safety

Are there recognisable risks in normal use, and are the relevant standards met?

37 / 40
92 %

FINDINGS

- Guards against overcharge, deep discharge, overheating and short circuit
- 40 °C surface at full load, cell ageing threshold sits at 45 °C
- 72 Wh below the 100 Wh cabin limit, figure printed on the housing
- Warning Risk of fire and burns carried bilingually on the plate

LIMITATIONS

- Poor footing, the ribbed back does not hold on smooth surfaces

RATING AREA C

Feedback and Service

63 / 80

78.8 % achieved · weight 26.7 %

7 Advertising Claims

Do the advertised claims hold up when checked on the sample?**11** / 15

73 %

FINDINGS

- Self-charge advertised at 100 min, 105 min measured on the sample
- Three devices at once advertised and confirmed across three ports
- Five fast-charge protocols advertised, eight found on the device
- 72 Wh cell energy advertised and confirmed on the rating plate

LIMITATIONS

- Rated Capacity: website says 20,000 mAh, plate says 11,000 mAh at 5 V
- Listing advertises 65 W, housing and manual state 85 W combined

8 Customer Feedback

What overall picture emerges from customer reviews?**15** / 20

75 %

FINDINGS

- 100 reviews analysed, average 4.55 against 4.5 across 1,234 on file
- 18 mentions praise the build, 13 the percentage readout
- 7 mentions confirm Xiaomi fast charging at 64 to 67 W
- 5 mentions confirm laptop charging while the machine runs

LIMITATIONS

- 5 mentions report total failure or a charge that never starts
- 7 mentions consider the extractable capacity too low

9 Packaging & Labelling

Are packaging, transport protection and mandatory information complete and clear?

13 / 15
87 %

FINDINGS

- CE, FCC, SGS 802725 and the crossed-out bin appear on the plate
- Wh figure 72Wh/73.44Wh printed, needed at the cabin baggage check
- Manual in 12 languages, the English section is complete
- Serial number and maker address legible on the device

LIMITATIONS

- Box holds only power bank, cable and papers, no carry pouch

10 Value for Money

Is the price in reasonable proportion to the market level of its class?

24 / 30
80 %

FINDINGS

- EUR 43.99 sits mid-class, the range runs EUR 27.20 to 83.00
- EUR 0.61 per Wh, the Ugreen Nexode 130W sits at EUR 0.55 per Wh
- 65 W single port for EUR 43.99, Xiaomi 20000 gives 22.5 W for EUR 35
- 89 % efficiency at the class best while the price stays mid-field

LIMITATIONS

- Ugreen Nexode 130W costs EUR 39.95 and gives 100 W on one port
- EUR 0.61 per Wh against EUR 0.55 at the cheapest close rival

Seven levels per test item

Every test item is rated on the same scale. The levels are fixed before testing and identical for all products.

Level	Meaning
5 • fully met	The item is met without reservation. The value is at or above the category benchmark. There is nothing to object to.
4 • largely met	The item is met. Minor deviations are visible but have no effect in normal use.
3 • met with reservations	The item is met, but the value is below the category benchmark. Use remains possible, but takes more effort.
2 • partly met	The item is only partly met. The shortfall is noticeable in daily use and restricts it.
1 • barely met	The item is essentially not met. Normal use is clearly impaired.
0 • not met	The item is not met. The product cannot sensibly be used as intended in this respect.
X • not applicable	The item does not apply to this product. It causes no deduction and its weighting is removed from the calculation.

What this report covers

The report documents a functional test in everyday use. It sets the values found against the category benchmark and ties every point deducted to a named finding.

What it does not cover

It does not replace long-term testing, chemical analysis or testing under controlled climate conditions. It makes no statement about durability beyond the test period and gives no purchase recommendation.

Verification



Test number 2609000898

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