



ONE POINTECH

STEALTH WIRELESS CHARGER

MODEL:QB06

TEST REPORT

1. Compatibility test

1.1 Test method: Test the following phones with the charging distance of 10mm, 15mm, 20mm, 25mm and 30mm

1.2 Test data

| Tested phones | without resonator pad | | with resonator pad | | |
|-------------------|-----------------------|------|--------------------|------|------|
| | 10mm | 15mm | 20mm | 25mm | 30mm |
| Samsung S8 | √ | √ | √ | √ | √ |
| Samsung S9 | √ | √ | √ | √ | √ |
| Samsung S20 | √ | √ | √ | √ | √ |
| iPhone 8P | √ | √ | √ | √ | √ |
| iPhone X | √ | √ | √ | √ | √ |
| iPhone XR | √ | √ | √ | √ | √ |
| iPhone XS Max | √ | √ | √ | √ | √ |
| iPhone 11 | √ | √ | √ | √ | √ |
| iPhone 12 | √ | √ | √ | √ | √ |
| iPhone 12 Pro Max | √ | √ | √ | √ | √ |
| XIAOMI MIX 2S | √ | √ | √ | √ | √ |
| XIAOMI 9 | √ | √ | √ | √ | √ |
| Huawei Mate20 Pro | √ | √ | √ | √ | √ |

2. FOD test

2.1 Test method

2.1.1 Power on FOD: When power on, put the foreign objects (iron sheet, coils etc.) on, and then put the phones on to see if the transmitter reports FOD and the phone stops charging.

2.1.2 Operating FOD: When the phone is charging, put on the foreign objects (iron sheet, coils, etc.) to see if the transmitter reports FOD and the phone stops charging.

2.2 Test data

| Tested phones | Power on FOD | Operating FOD |
|---------------|--------------|---------------|
| Samsung S8 | √ | √ |
| Samsung S9 | √ | √ |
| Samsung S20 | √ | √ |
| iPhone 8P | √ | √ |
| iPhone X | √ | √ |
| iPhone XR | √ | √ |
| iPhone XS Max | √ | √ |
| iPhone 11 | √ | √ |

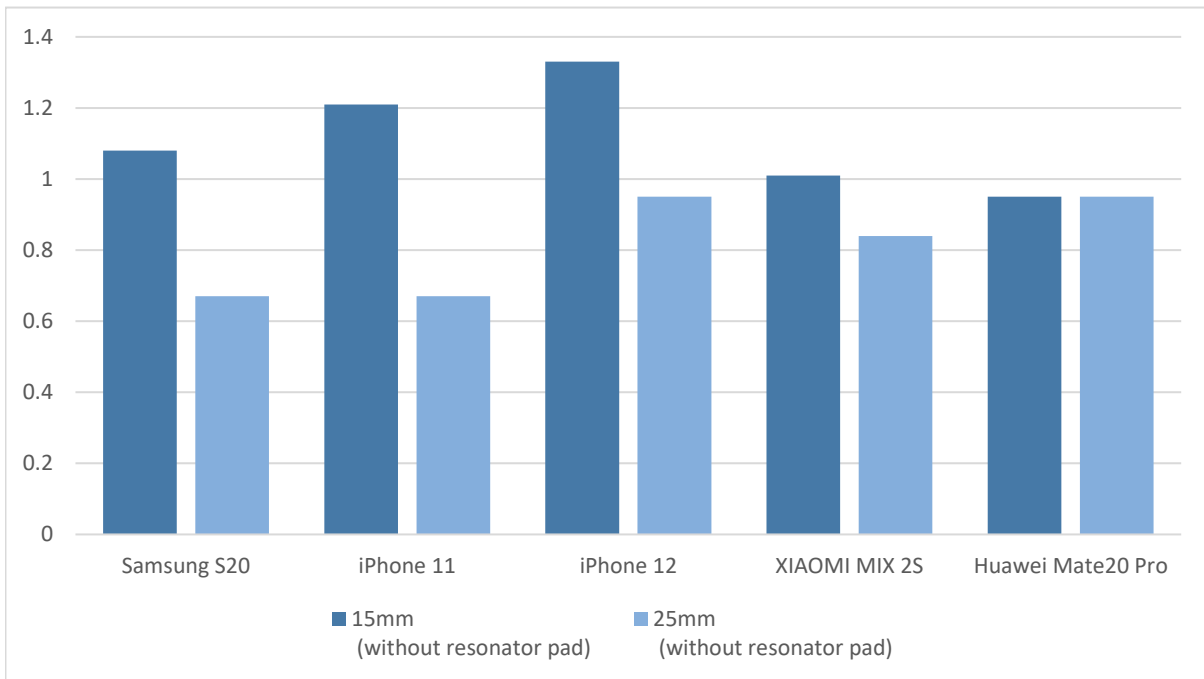
| | | |
|-------------------|---|---|
| iPhone 12 | √ | √ |
| iPhone 12 Pro Max | √ | √ |
| XIAOMI MIX 2S | √ | √ |
| XIAOMI 9 | √ | √ |
| Huawei Mate20 Pro | √ | √ |

3. Charging response time

3.1 Test method: Use serial port to read MCU to collect the response time of different phone models with the charging distance of 15mm (without resonator pad) and 25mm (with resonator pad).

3.2 Test data

| Test phones | 15mm (without resonator pad) | 25mm (without resonator pad) |
|-------------------|---------------------------------|---------------------------------|
| Samsung S20 | 1.08 | 0.67 |
| iPhone 11 | 1.21 | 0.67 |
| iPhone 12 | 1.33 | 0.95 |
| XIAOMI MIX 2S | 1.01 | 0.84 |
| Huawei Mate20 Pro | 0.95 | 0.95 |



4. Charging efficiency test

4.1 Test method: Record the input voltage and current of the main board and the received power on the receiver.

$$\text{Efficiency (\%)} = \text{Received Power (W)} / \text{Input Power (W)}$$

4.2 Test data

4.2.1 Charging distance 15mm without resonator pad

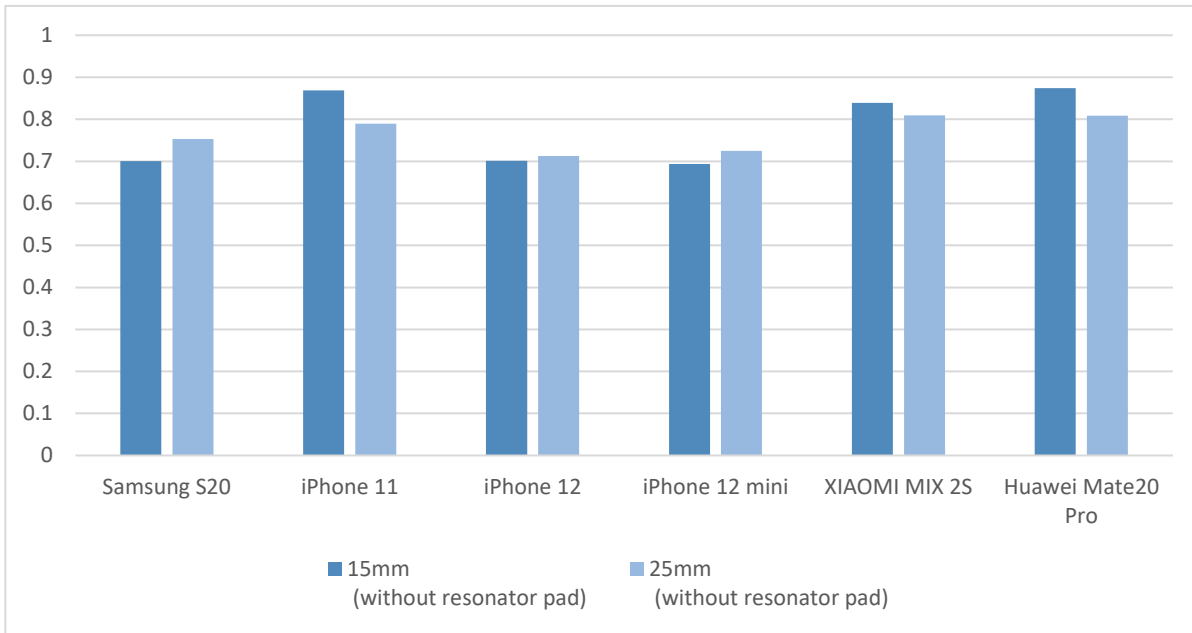
| Tested phones | Received power (W) | Input power (W) | Efficiency (%) | Average (%) |
|-------------------|--------------------|-----------------|----------------|-------------|
| Samsung S20 | 9.140 | 12.998 | 70.32% | 70.07% |
| | 9.140 | 13.093 | 69.81% | |
| | 9.140 | 13.055 | 70.01% | |
| | 9.140 | 13.055 | 70.01% | |
| | 9.140 | 13.017 | 70.22% | |
| iPhone 11 | 9.960 | 11.626 | 85.67% | 86.88% |
| | 9.960 | 11.106 | 89.68% | |
| | 9.960 | 11.594 | 85.91% | |
| | 9.960 | 11.366 | 87.63% | |
| | 9.960 | 11.645 | 85.53% | |
| iPhone 12 | 9.179 | 13.201 | 69.53% | 70.10% |
| | 9.179 | 13.238 | 69.34% | |
| | 9.179 | 13.219 | 69.44% | |
| | 9.140 | 12.888 | 70.92% | |
| | 9.140 | 12.827 | 71.26% | |
| iPhone 12 mini | 9.296 | 13.138 | 70.76% | 69.35% |
| | 9.296 | 13.593 | 68.39% | |
| | 9.296 | 13.489 | 68.92% | |
| | 9.296 | 13.51 | 68.81% | |
| | 9.296 | 13.3 | 69.89% | |
| XIAOMI MIX 2S | 5.781 | 6.863 | 84.23% | 83.91% |
| | 5.781 | 6.882 | 84.00% | |
| | 5.781 | 6.958 | 83.08% | |
| | 5.781 | 6.865 | 84.21% | |
| | 5.781 | 6.88 | 84.03% | |
| Huawei Mate20 Pro | 6.523 | 7.423 | 87.88% | 87.43% |
| | 6.523 | 7.577 | 86.09% | |
| | 6.523 | 7.423 | 87.88% | |
| | 6.523 | 7.423 | 87.88% | |
| | 6.523 | 7.461 | 87.43% | |

4.2.2 Charging distance 25mm with resonator pad

| Tested phones | Received power (W) | Input power (W) | Efficiency (%) | Average (%) |
|-------------------|--------------------|-----------------|----------------|-------------|
| Samsung S20 | 9.218 | 12.236 | 75.34% | 75.32% |
| | 9.218 | 12.233 | 75.35% | |
| | 9.218 | 12.222 | 75.42% | |
| | 9.218 | 12.253 | 75.23% | |
| | 9.218 | 12.233 | 75.35% | |
| iPhone 11 | 5.859 | 7.282 | 80.46% | 78.95% |
| | 5.859 | 7.735 | 75.75% | |
| | 5.859 | 7.093 | 82.60% | |
| | 5.859 | 7.376 | 79.43% | |
| | 5.859 | 7.66 | 76.49% | |
| iPhone 12 | 5.507 | 7.514 | 73.29% | 71.29% |
| | 5.507 | 7.778 | 70.80% | |
| | 5.507 | 7.799 | 70.61% | |
| | 5.507 | 7.78 | 70.78% | |
| | 5.507 | 7.761 | 70.96% | |
| iPhone 12 mini | 8.789 | 12.355 | 71.14% | 72.52% |
| | 8.789 | 12.412 | 70.81% | |
| | 8.750 | 11.754 | 74.44% | |
| | 9.062 | 12.416 | 72.99% | |
| | 9.062 | 12.374 | 73.23% | |
| XIAOMI MIX 2S | 5.781 | 7.191 | 80.39% | 80.97% |
| | 5.781 | 7.108 | 81.33% | |
| | 5.781 | 7.115 | 81.25% | |
| | 5.781 | 7.135 | 81.02% | |
| | 5.781 | 7.151 | 80.84% | |
| Huawei Mate20 Pro | 6.484 | 8.007 | 80.98% | 80.84% |
| | 6.484 | 8.066 | 80.39% | |
| | 6.484 | 8.045 | 80.60% | |
| | 6.484 | 8.032 | 80.73% | |
| | 6.484 | 7.954 | 81.52% | |

4.2.3 Summary

| Test phones | 15mm (without resonator pad) | 25mm (without resonator pad) |
|-------------------|------------------------------------|------------------------------------|
| Samsung S20 | 70.07% | 75.32% |
| iPhone 11 | 86.88% | 78.95% |
| iPhone 12 | 70.10% | 71.29% |
| iPhone 12 mini | 69.35% | 72.52% |
| XIAOMI MIX 2S | 83.91% | 80.97% |
| Huawei Mate20 Pro | 87.43% | 80.84% |

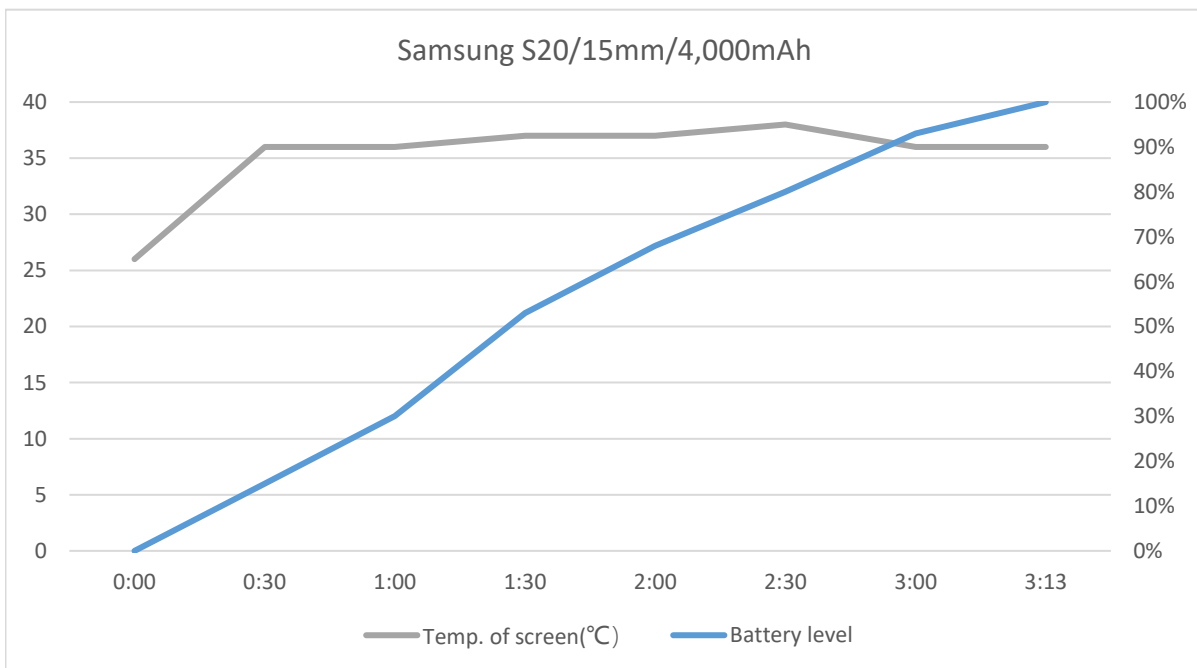


5. Charging effect and temperature test

5.1 Samsung S20 @ 15mm

Room temperature 26°C
 Battery Capacity 4000mAh
 Charging distance 15mm(without resonator pad)
 Charging time (from 0% to 100%) 3 hours and 13 minutes
 Maximum phone screen temperature 37°C

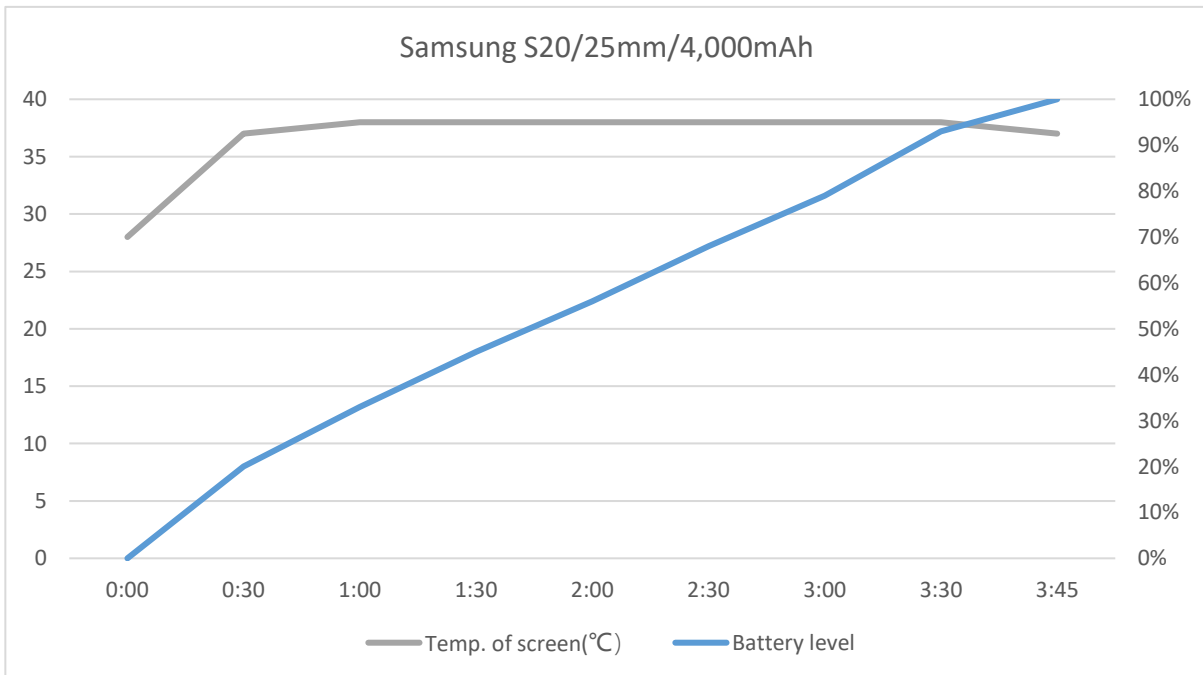
| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 26 |
| 0:30 | 15% | 36 |
| 1:00 | 30% | 36 |
| 1:30 | 53% | 37 |
| 2:00 | 68% | 37 |
| 2:30 | 80% | 38 |
| 3:00 | 93% | 36 |
| 3:13 | 100% | 36 |



5.2 Samsung S20 @ 25mm

Room temperature 26°C
 Battery Capacity 4000mAh
 Charging distance 25mm(with resonator pad)
 Charging time (from 0% to 100%) 3 hours and 45 minutes
 Maximum phone screen temperature 38°C

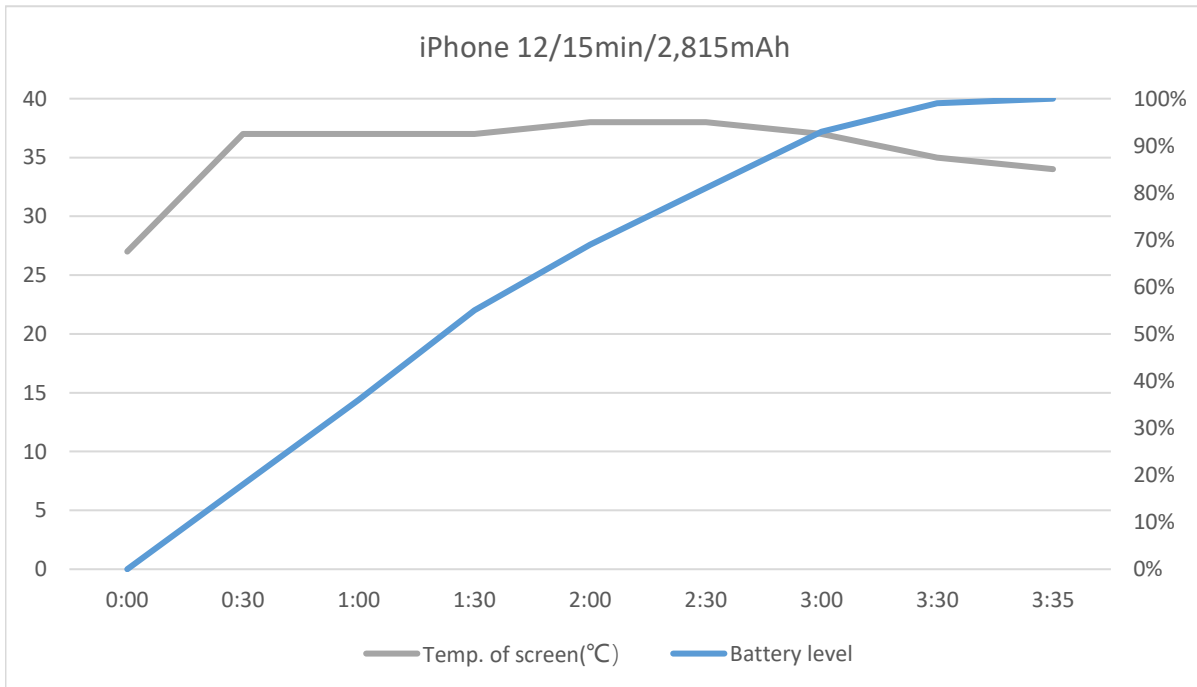
| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 28 |
| 0:30 | 20% | 37 |
| 1:00 | 33% | 38 |
| 1:30 | 45% | 38 |
| 2:00 | 56% | 38 |
| 2:30 | 68% | 38 |
| 3:00 | 79% | 38 |
| 3:30 | 93% | 38 |
| 3:45 | 100% | 37 |



5.3 iPhone 12 @ 15mm

Room temperature 25°C
 Battery Capacity 2,815mAh
 Charging distance 15mm(without resonator pad)
 Charging time (from 0% to 100%) 3 hours and 35 minutes
 Maximum phone screen temperature 38°C

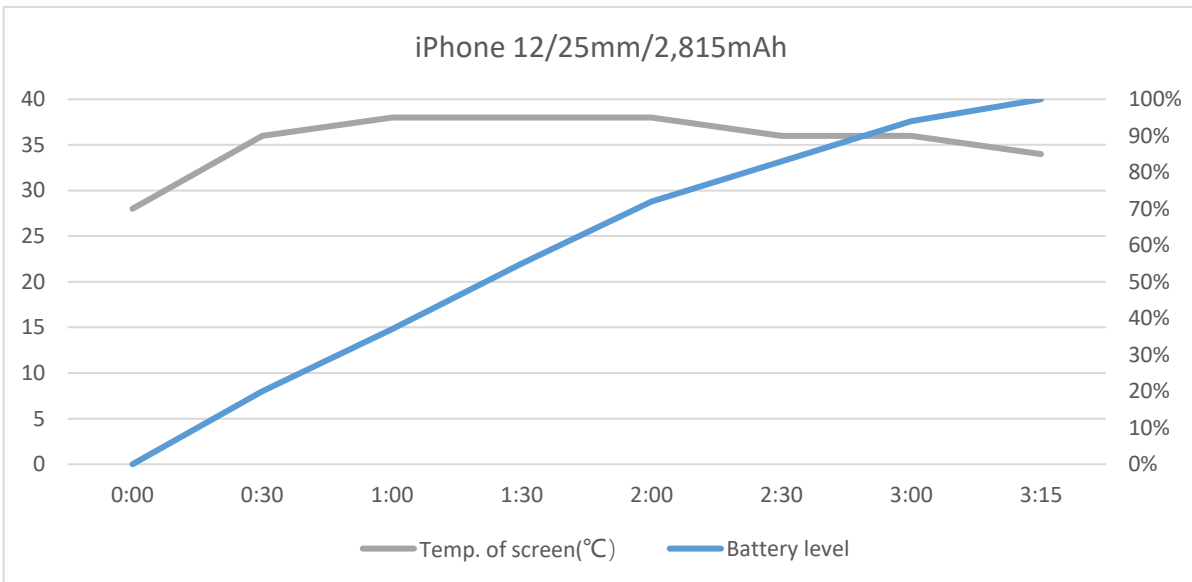
| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 27 |
| 0:30 | 18% | 37 |
| 1:00 | 36% | 37 |
| 1:30 | 55% | 37 |
| 2:00 | 69% | 38 |
| 2:30 | 81% | 38 |
| 3:00 | 93% | 37 |
| 3:30 | 99% | 35 |
| 3:35 | 100% | 34 |



5.4 iPhone 12 @ 25mm

Room temperature 27°C
 Battery Capacity 2,815mAh
 Charging distance 25mm(with resonator pad)
 Charging time (from 0% to 100%) 3 hours and 15 minutes
 Maximum phone screen temperature 38°C

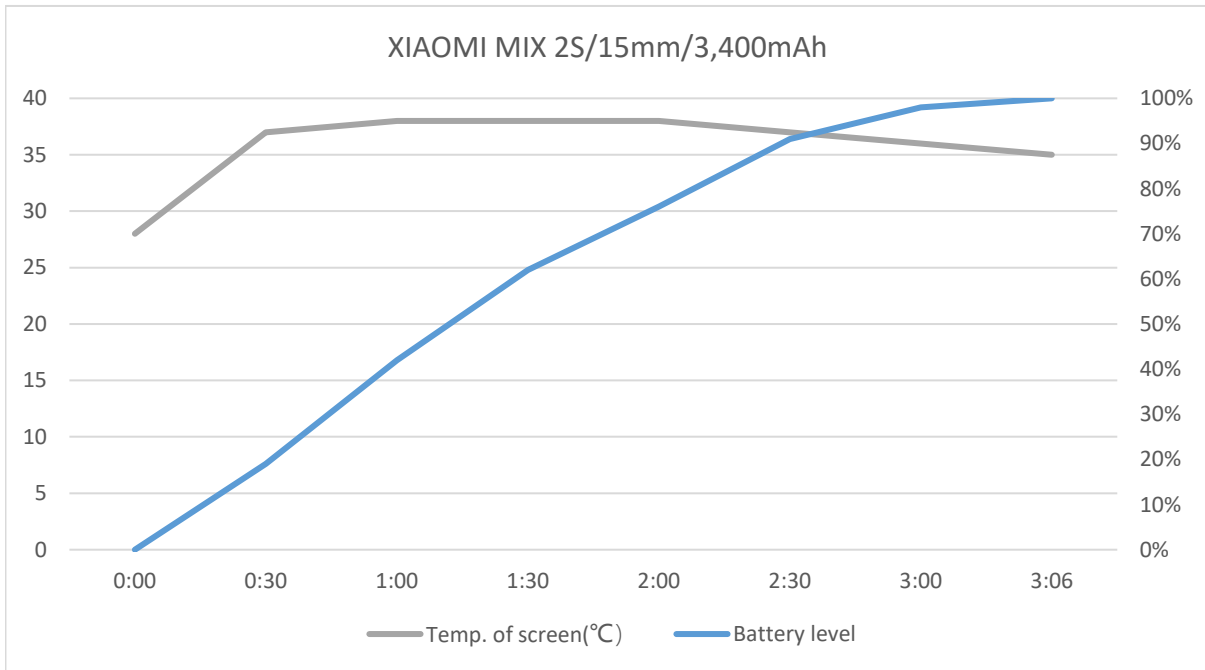
| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 28 |
| 0:30 | 20% | 36 |
| 1:00 | 37% | 38 |
| 1:30 | 55% | 38 |
| 2:00 | 72% | 38 |
| 2:30 | 83% | 36 |
| 3:00 | 94% | 36 |
| 3:15 | 100% | 34 |



5.5 XIAOMI MIX 2S @ 15mm

Room temperature 26°C
 Battery Capacity 3,400mAh
 Charging distance 15mm(without resonator pad)
 Charging time (from 0% to 100%) 3 hours and 6 minutes
 Maximum phone screen temperature 38°C

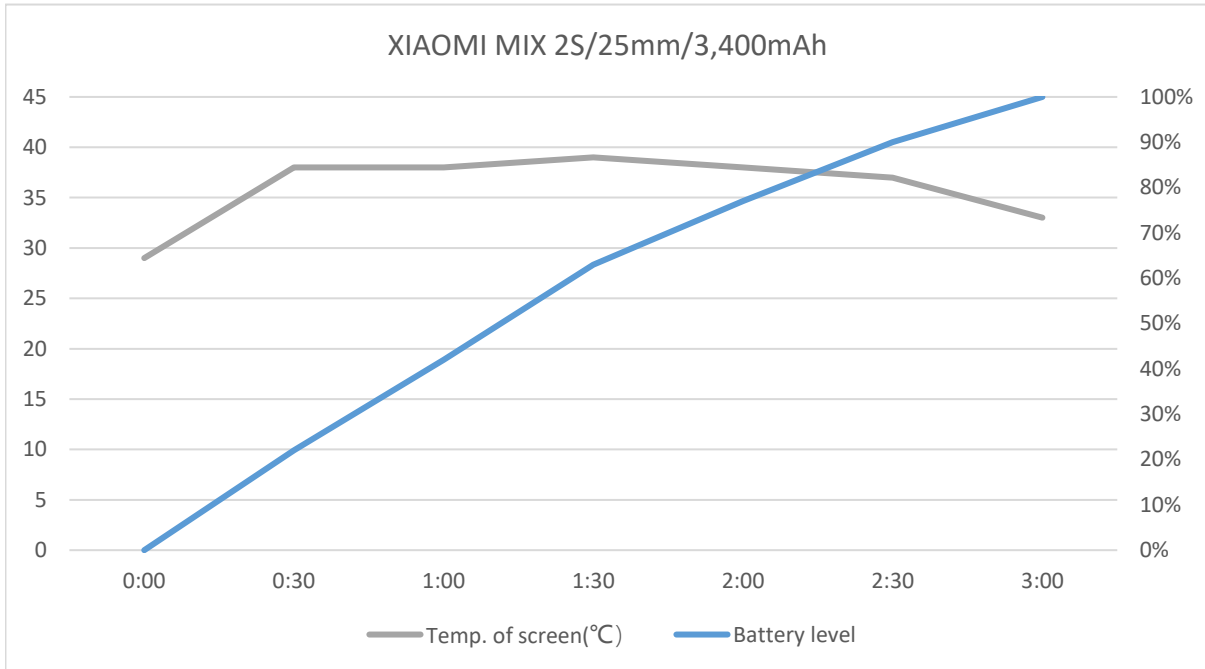
| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 28 |
| 0:30 | 19% | 37 |
| 1:00 | 42% | 38 |
| 1:30 | 62% | 38 |
| 2:00 | 76% | 38 |
| 2:30 | 91% | 37 |
| 3:00 | 98% | 36 |
| 3:06 | 100% | 35 |



5.6 XIAOMI MIX 2S @ 25mm

Room temperature 27°C
 Battery Capacity 3,400mAh
 Charging distance 25mm(with resonator pad)
 Charging time (from 0% to 100%) 3 hours
 Maximum phone screen temperature 39°C

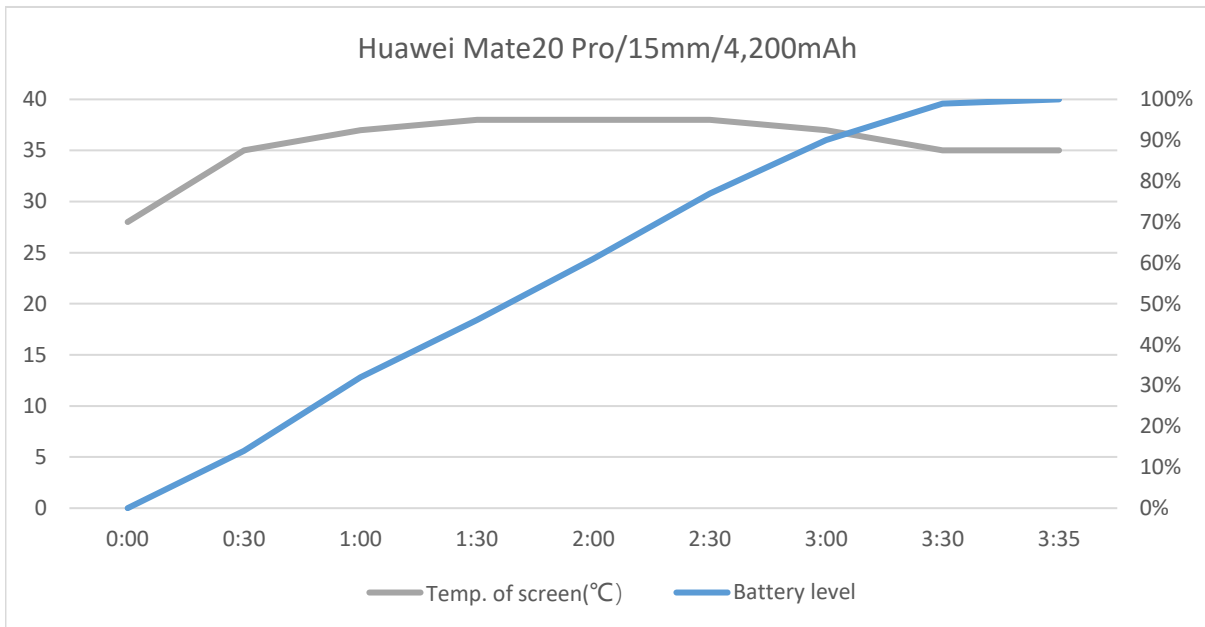
| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 29 |
| 0:30 | 22% | 38 |
| 1:00 | 42% | 38 |
| 1:30 | 63% | 39 |
| 2:00 | 77% | 38 |
| 2:30 | 90% | 37 |
| 3:00 | 100% | 33 |



5.7 Huawei Mate20 Pro @ 15mm

Room temperature 26°C
 Battery Capacity 4,200mAh
 Charging distance 15mm(without resonator pad)
 Charging time (from 0% to 100%) 3 hours and 35 minutes
 Maximum phone screen temperature 38°C

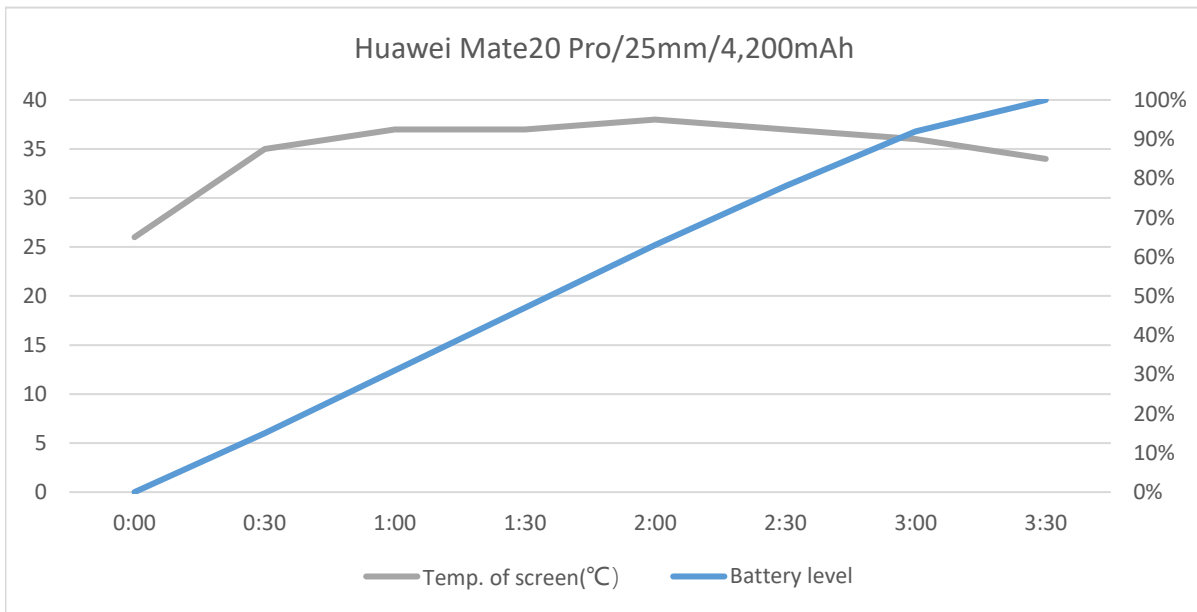
| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 28 |
| 0:30 | 14% | 35 |
| 1:00 | 32% | 37 |
| 1:30 | 46% | 38 |
| 2:00 | 61% | 38 |
| 2:30 | 77% | 38 |
| 3:00 | 90% | 37 |
| 3:30 | 99% | 35 |
| 3:35 | 100% | 35 |



5.8 Huawei Mate20 Pro @ 25mm

Room temperature 26°C
 Battery Capacity 4,200mAh
 Charging distance 25mm(with resonator pad)
 Charging time (from 0% to 100%) 3 hours and 30 minutes
 Maximum phone screen temperature 38°C

| Charging time | Battery level | Temp. of screen(°C) |
|---------------|---------------|---------------------|
| 0:00 | 0% | 26 |
| 0:30 | 15% | 35 |
| 1:00 | 31% | 37 |
| 1:30 | 47% | 37 |
| 2:00 | 63% | 38 |
| 2:30 | 78% | 37 |
| 3:00 | 92% | 36 |
| 3:30 | 100% | 34 |



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