



INIU POWER BANKS

Energy Units

Kilowatt Hour (kWh) =

Watt Hours (Wh) / 1000

Watt*Hour (Wh) = ~mAh/1000*Volts

This Device (the m is milli /1000):

10000 mAh*3.70V = ~37 Wh*

*Not an exact value, as V is not constant!

Energy Units

Kilowatt Hour (kWh) =

Watt Hours (Wh) / 1000

Watt*Hour (Wh) = mAh/1000*Volts

This Device (the m is milli /1000):

15000 mAh*3.70V = ~55 Wh*

*Not an exact value, as V is not constant!

Energy Units

Kilowatt Hour (kWh) =

Watt Hours (Wh) / 1000

Watt*Hour (Wh) = $\sim \text{mAh} / 1000 * \text{Volts}$

This Device (the m is milli /1000):

$20000 \text{ mAh} * 3.70\text{V} = \sim 74 \text{ Wh} *$

*Not an exact value, as V is not constant!

Energy Units

Kilowatt Hour (kWh) =

Watt Hours (Wh) / 1000

Watt*Hour (Wh) = ~mAh/1000*Volts

This Device (the m is milli /1000):

25000 mAh*3.70V = ~93 Wh*

*Not an exact value, as V is not constant!

Iniu PowerPaw Slim 10000mAh Power Bank BI-B41

Basic Specifications

10,000 mAh
Flashlight LED

5 V only device
1 USB C, 2 USB A

Stays on in low power mode
Pass through; not a UPS



Iniu PowerPaw Slim 10000mAh Power Bank BI-B41	
Input Energy for Full Charge	49 Wh
Output Energy for Full Discharge	30.3 Wh
Efficiency of Discharge	81.9%
Efficiency (including power adapter) from Wall Socket to Delivered Energy	61.8%

Iniu 15000 mAh Power Bank BI-B62 45W

Basic Specifications

15,000 mAh
Flashlight LED

5,9,12,15,20 V PD device
20V PPS, 2.7A limit
1 USB C, 1 USB A

Stays on in low power mode
Pass through; Works as a UPS (5V)



Iniu 15000 mAh Power Bank BI-B62 45W	
Input Energy for Full Charge	65.3 Wh
Output Energy for Full Discharge	48 Wh at 25W 47.2Wh at 45W
Efficiency of Discharge	86.5%
Efficiency (including power adapter) from Wall Socket to Delivered Energy	73.5%

Iniu PD 22.5 20000mAh BI-B5 Power Bank

Basic Specifications

20,000 mAh
Flashlight LED

5, 9, 12 V device
1 USB C, 2 USB A

Stays on in low power mode
Pass through; not a UPS



Iniu PD 22.5 20000mAh BI-B5 Power Bank	
Input Energy for Full Charge	98 Wh
Output Energy for Full Discharge	63.3 Wh
Efficiency of Discharge	85.5%
Efficiency (including power adapter) from Wall Socket to Delivered Energy	64.6%

Iniu PD 65W 25000mAh Power Bank BI-B63

Basic Specifications

25,000 mAh

5, 9, 12, 15, 20 V PD device
11, 20V PPS – 3A limit
2 USB C, 1 USB A

Stays on in low power mode
Pass through; Works as UPS (with PD)



Iniu PD 65W 25000mAh Power Bank BI-B63	
Input Energy for Full Charge	102.6 Wh
Output Energy for Full Discharge	81.4 Wh at 25W 82.7 Wh at 65W
Efficiency of Discharge	88%
Efficiency (including power adapter) from Wall Socket to Delivered Energy	79.3%

Comparison	Iniu PowerPaw Slim 10000mAh Power Bank BI-B41	Anker 313 Power Bank (PowerCore Slim 10K) 10000mAh	Nitecore NB10000 Gen II (Gen 2) Ultra-Slim	Anker 325 Power Bank (PowerCore Essential 20K) 20000mAh
Input Energy for Full Charge	49	49.9	48.3	105.4
Maximum Power In (Watts)	15	10	18	14
Maximum Power Out (Watts)	15	12	18	15
Output Energy for Full Discharge (Wh)	30.3	27	29.2	68.5
Efficiency of Discharge (HIGHER IS BETTER)	81.9	73	75.9	95.1
Efficiency (including power adapter) from Wall Socket to Delivered Energy (HIGHER IS BETTER)	61.8	54.1	60.5	65

Comparison	Iniu 15000 mAh Power Bank BI-B62 45W	Evatronic ET-PB005	Zmi PowerPack No. 20, QB826G 25000 mAh PD Max 100W Single Port	Anker 325 Power Bank (PowerCore Essential 20K) 20000mAh
Input Energy for Full Charge	65.3	79	97	105.4
Maximum Power In (Watts)	30	30	80	14
Maximum Power Out (Watts)	45	60	100	15
Output Energy for Full Discharge (Wh)	48	58.2	78.1	68.5
Efficiency of Discharge (HIGHER IS BETTER)	86.5	80.8	86.1	95.1
Efficiency (including power adapter) from Wall Socket to Delivered Energy (HIGHER IS BETTER)	73.5	73.6	80.5	65

Comparison	Iniu PD 22.5 20000mAh BI-B5 Power Bank	Evatronic ET-PB005	Zmi PowerPack No. 20, QB826G Ultra Worldwide Ed. 25000 mAh PD Max 100W Single Port	Anker 325 Power Bank (PowerCore Essential 20K) 20000mAh
Input Energy for Full Charge	98	79	97	105.4
Maximum Power In (Watts)	20	30	80	14
Maximum Power Out (Watts)	20	60	100	15
Output Energy for Full Discharge (Wh)	63.3	58.2	78.1	68.5
Efficiency of Discharge (HIGHER IS BETTER)	85.5	80.8	86.1	95.1
Efficiency (including power adapter) from Wall Socket to Delivered Energy (HIGHER IS BETTER)	64.6	73.6	80.5	65

Comparison	Iniu PD 65W 25000mAh Power Bank BI-B63	Evatronic ET-PB005	Zmi PowerPack No. 20, QB826G Ultra Worldwide Ed. 25000 mAh PD Max 100W Single Port	Anker 325 Power Bank (PowerCore Essential 20K) 20000mAh
Input Energy for Full Charge	102.6	79	97	105.4
Maximum Power In (Watts)	45	30	80	14
Maximum Power Out (Watts)	65	60	100	15
Output Energy for Full Discharge (Wh)	81.4	58.2	78.1	68.5
Efficiency of Discharge (HIGHER IS BETTER)	88	80.8	86.1	95.1
Efficiency (including power adapter) from Wall Socket to Delivered Energy (HIGHER IS BETTER)	79.3	73.6	80.5	65

Device	Cost (USD, 2024)	Capacity Usable (Wh)	Value, Wh/\$ (Higher is better)
Iniu PowerPaw Slim 10000mAh Power Bank BI-B41	20	30.3	1.52
Iniu 15000 mAh Power Bank BI-B62 45W	40	48.0	1.20
Iniu PD 22.5 20000mAh BI-B5 Power Bank	30	63.3	2.11
Iniu PD 65W 25000mAh Power Bank BI-B63	67	81.4	1.21
Anker 313 Power Bank (PowerCore Slim 10K) 10000mAh	22	27.0	1.23
Anker 325 Power Bank (PowerCore Essential 20K) 20000mAh	43	68.5	1.59
Evatronic ET-PB005	54	58.2	1.08
Zmi PowerPack No. 20, QB826G Worldwide Ed. 25000 mAh PD Max 100W Single Port	159	78.1	0.49

Device	Cost (USD, 2024)	Energy Density (Wh/kg) / (Wh/liter)	Power Density (W/kg)
Iniu PowerPaw Slim 10000mAh Power Bank BI-B41	20	152 Wh/kg 217 Wh/l	75
Iniu 15000 mAh Power Bank BI-B62 45W	40	148 Wh/kg 195 Wh/l	138
Iniu PD 22.5 20000mAh BI-B5 Power Bank	30	181 Wh/kg 248 Wh/l	57
Iniu PD 65W 25000mAh Power Bank BI-B63	67	167 Wh/kg 216 Wh/l	134
Anker 313 Power Bank (PowerCore Slim 10K) 10000mAh	22	115 Wh/kg 154 Wh/l	51
Anker 325 Power Bank (PowerCore Essential 20K) 20000mAh	43	202 Wh/kg 289 Wh/l	44
Evatronic ET-PB005	54	161 Wh/kg 218 Wh/l	166
Zmi PowerPack No. 20, QB826G Worldwide Ed. 25000 mAh PD Max 100W Single Port	159	134 Wh/kg 184 Wh/l	171

Charge Energy / Time

Iniu PowerPaw Slim 10000mAh Power Bank BI-B41

Charge Rate 15W

Time to Full Charge
80% in 2.5 hours

V-Range 150 V AC+DC CF3
I-Auto 200 mA Update 2s

SYNC.V HRM.I

P 17.806 W
PF 0.8822

VA	20.183 VA	THDV	0.06 %
Vrms	119.97 V	I+pk	305.5 mA
Irms	168.24 mA	I-pk	-303.1 mA
THDI	20.80 %	VHz	60.003 Hz

Mode

Manual

Function

Watt Hours

Set Time

0000:00:00

Test Time

0003:49:32

State

Stop

WP 49.044 Wh

WP+ 51.256 Wh

WP- -2.2115 Wh

Enlarge

Integrator

Parameter

System

Graph

Measure

Set

Charge Energy / Time

Iniu 15000 mAh Power Bank BI-B62 45W

Charge Rate 30W

Time to Full Charge
90% in 1hr 45min

V-Range 150 V AC+DC CF3
I-Auto 0.5 A Update 2s

SYNC.V HRM.I

P 33.198 W
PF 0.9508

VA	34.914 VA	THDV	0.06 %
Vrms	120.03 V	I+pk	465.0 mA
Irms	290.89 mA	I-pk	-468.7 mA
THDI	13.64 %	VHz	60.003 Hz

Mode

Manual

Function

Watt Hours

Set Time

0000:00:00

Test Time

0002:27:52

State

Running

WP 65.284 Wh

WP+ 65.945 Wh WP- -660.24 mWh

Enlarge

Integrator

Parameter

System

Graph

Measure

Set

Charge Energy / Time

Iniu PD 22.5 20000mAh BI-B5 Power Bank

Charge Rate 18W

Time to Full Charge
4 hours to 80%

V-Range 150 V AC+DC CF3
I-Auto 0.5 A Update 2s

SYNC.V HRM.I

Mode

Manual

Function

Watt Hours

Set Time

0000:00:00

Test Time

0006:11:26

State

Running

P 20.249 W
PF 0.8962

VA	22.595 VA	THDV	0.05 %
Vrms	120.04 V	I+pk	334.8 mA
Irms	188.22 mA	I-pk	-335.4 mA
THDI	19.72 %	VHz	60.003 Hz

Enlarge

Integrator

Parameter

System

Graph

WP 98.015 Wh

WP+ 101.19 Wh

WP- -3.1737 Wh

Measure

Set

Charge Energy / Time

Iniu PD 65W 25000mAh Power Bank BI-B63

Charge Rate 45W

Time to Full Charge
1Hr 53min to 90%

V-Range 150 V AC+DC CF3
I-Auto 0.5 A Update 2s

SYNC.V HRM.I

P 48.554 **w**
PF 0.9685

VA	50.131 VA	THDV	0.05 %
Vrms	120.03 V	I+pk	625.9 mA
Irms	417.65 mA	I-pk	-634.6 mA
THDI	13.53 %	VHz	60.003 Hz

Enlarge

Integrator

Parameter

System

Graph

Mode

Manual

Function

Watt Hours

Set Time

0000:00:00

Test Time

0002:36:46

State

Stop

WP 102.58 **wh**

WP+ 103.13 Wh

WP- -549.19 mWh

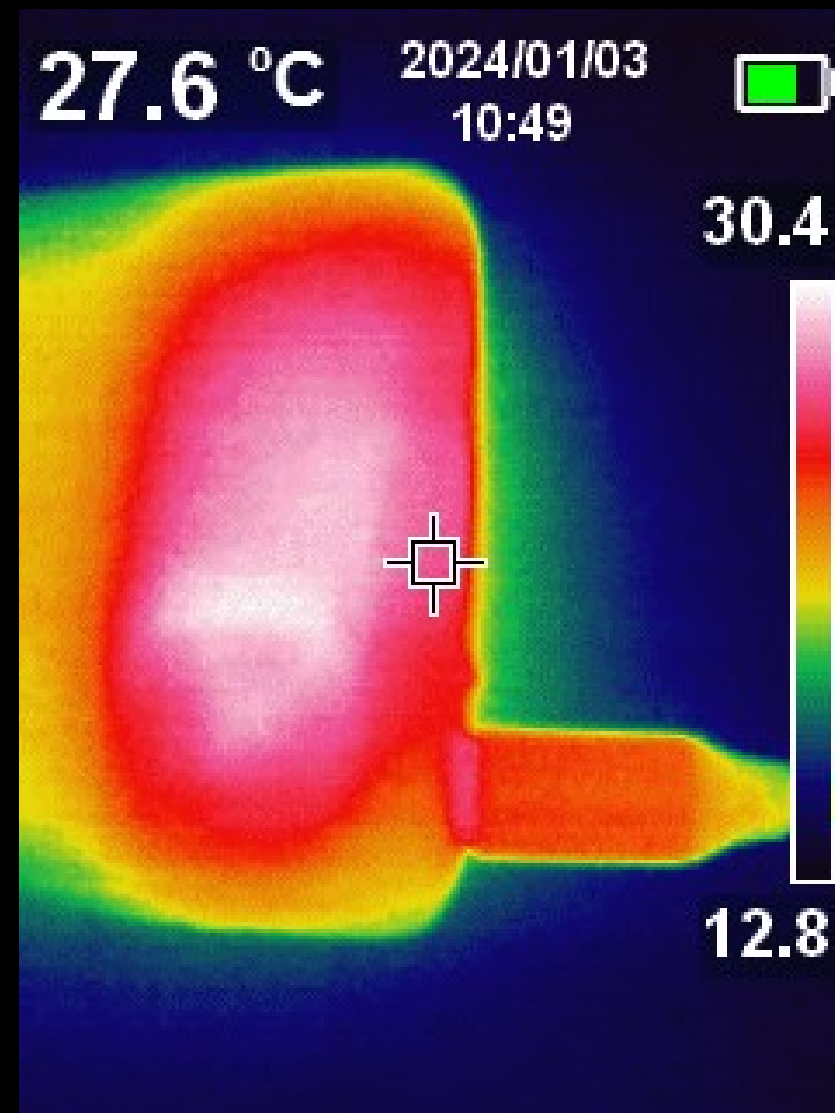
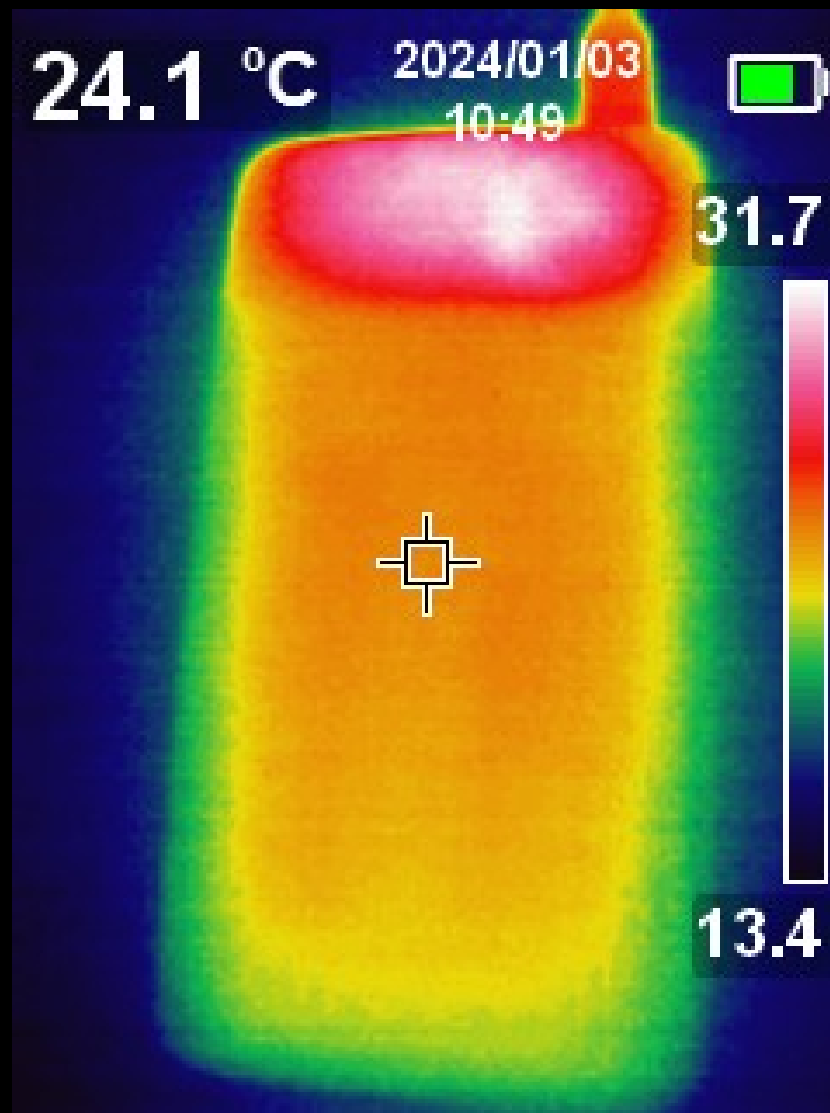
Measure

Set

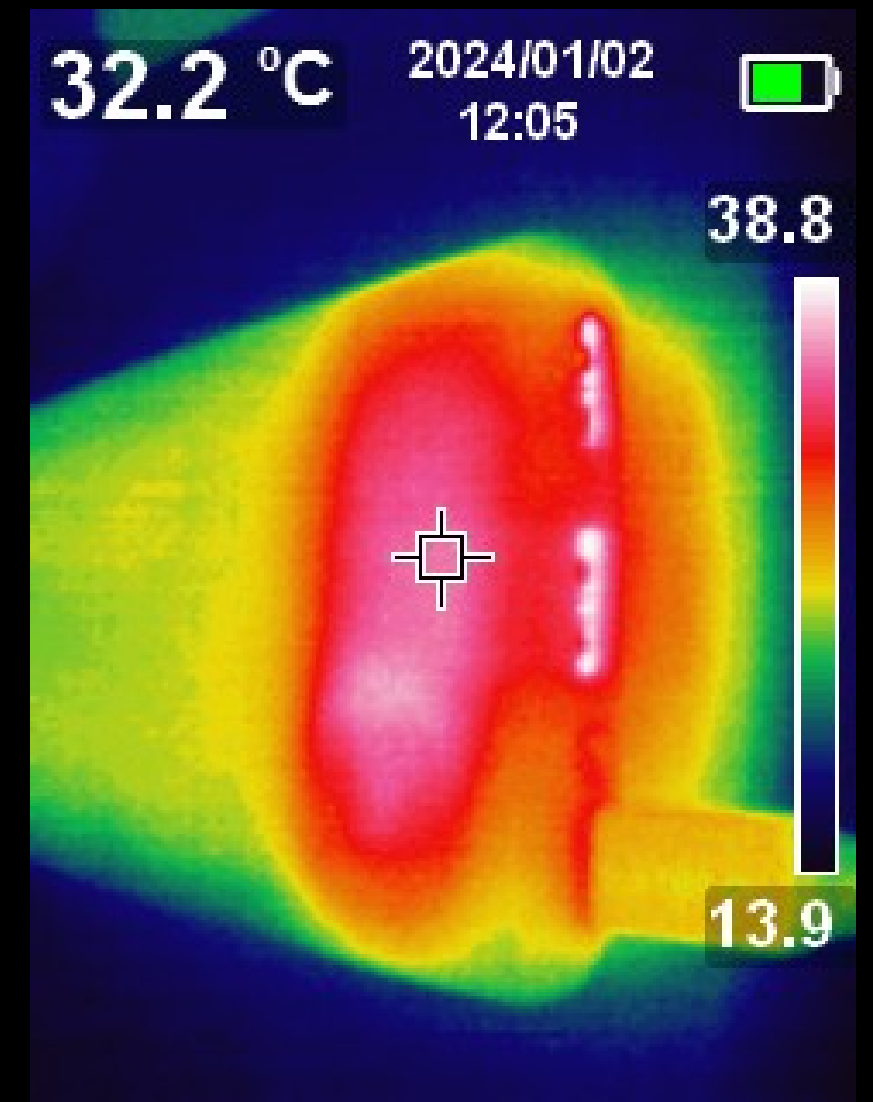
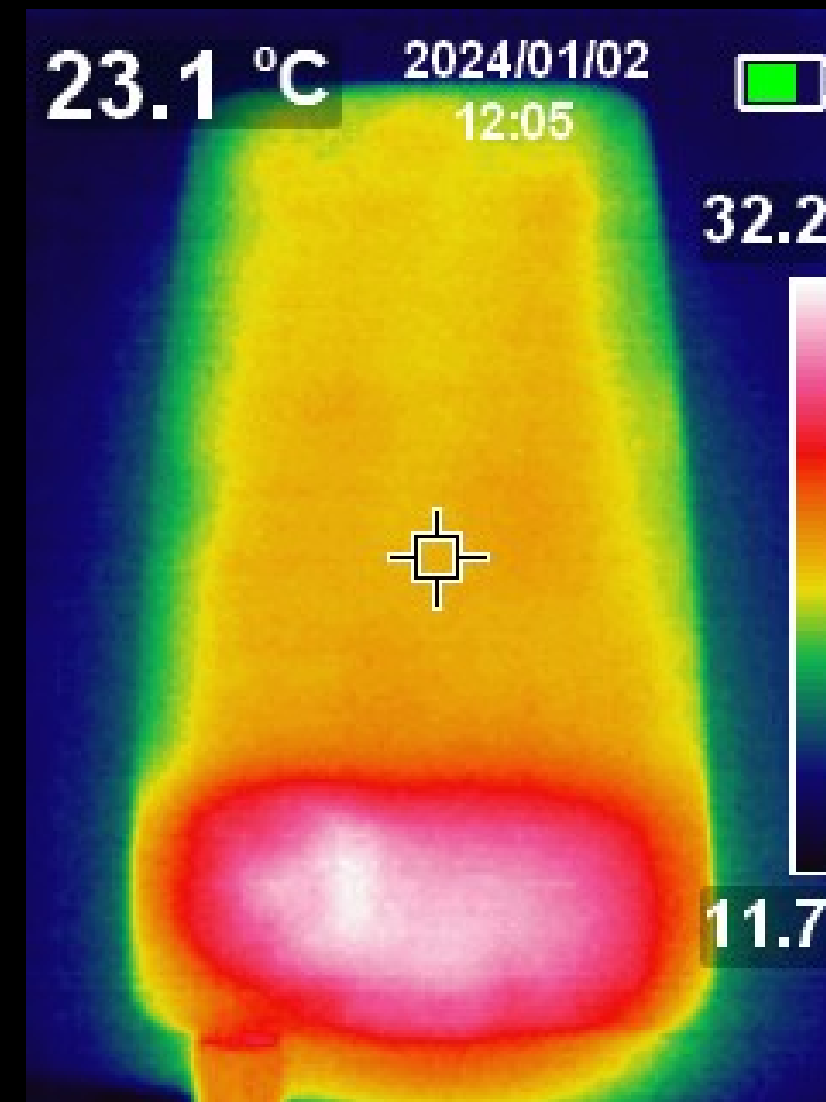
Thermal Images

Iniu PowerPaw Slim 10000mAh Power Bank BI-B41

Charging @ 15W



Discharging @ 15W

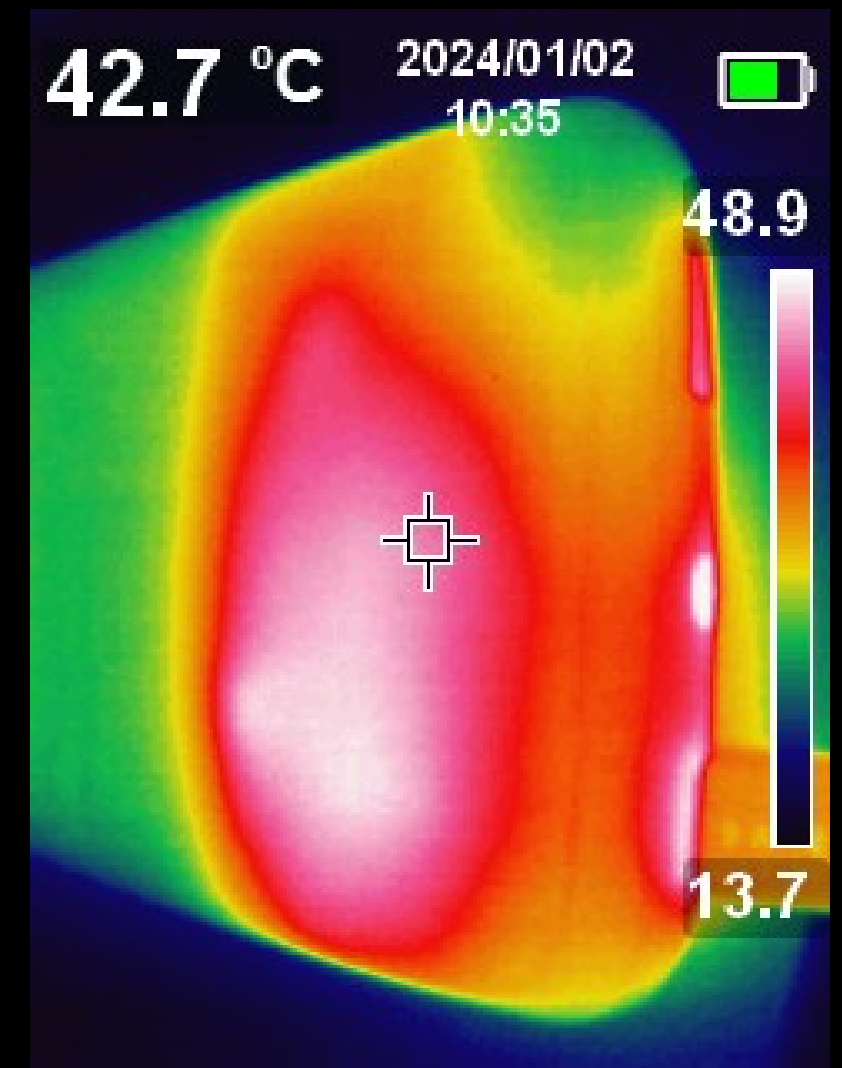
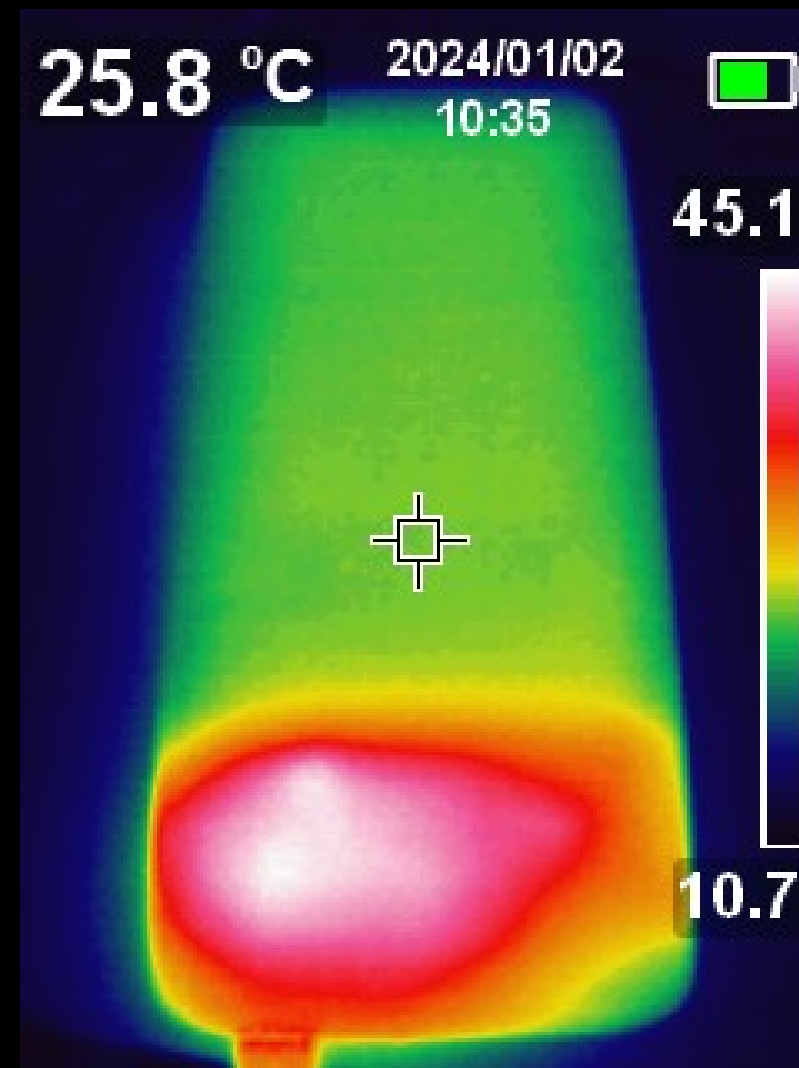
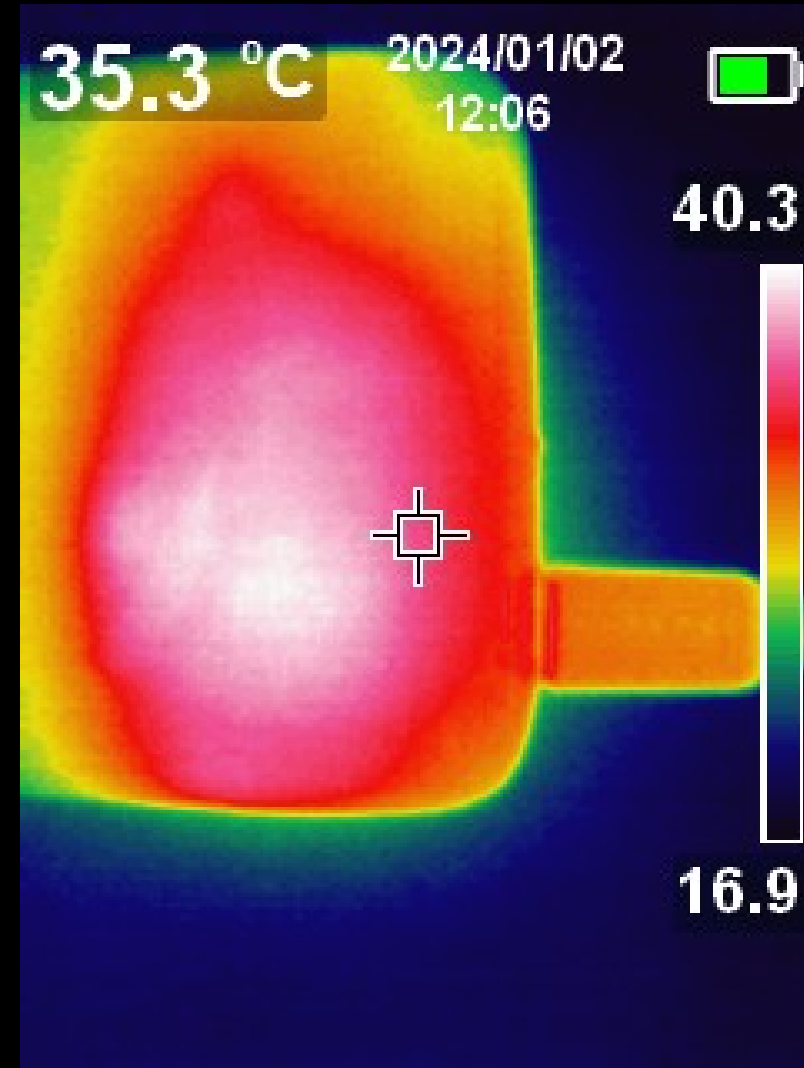


Thermal Images

Iniu 15000 mAh Power Bank BI-B62 45W

Charging @ 30W

Discharging @ 45W

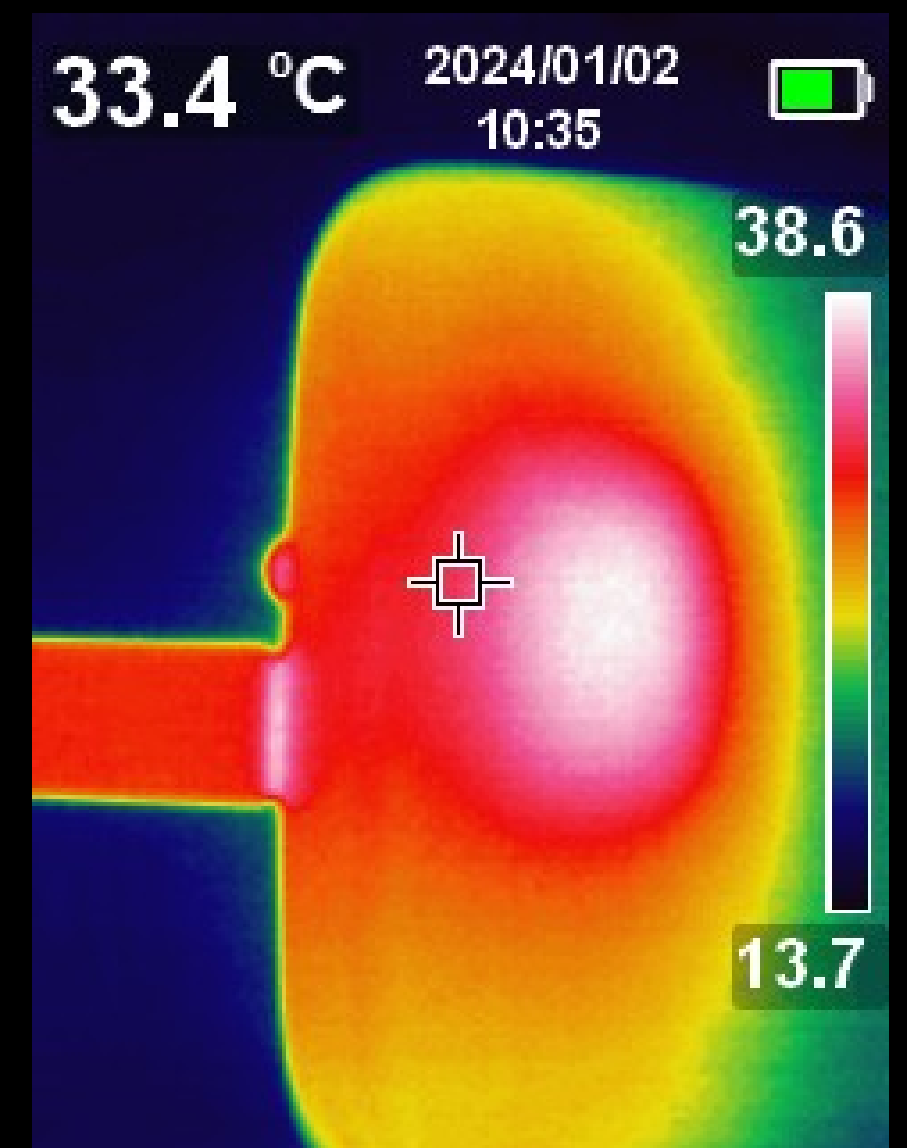
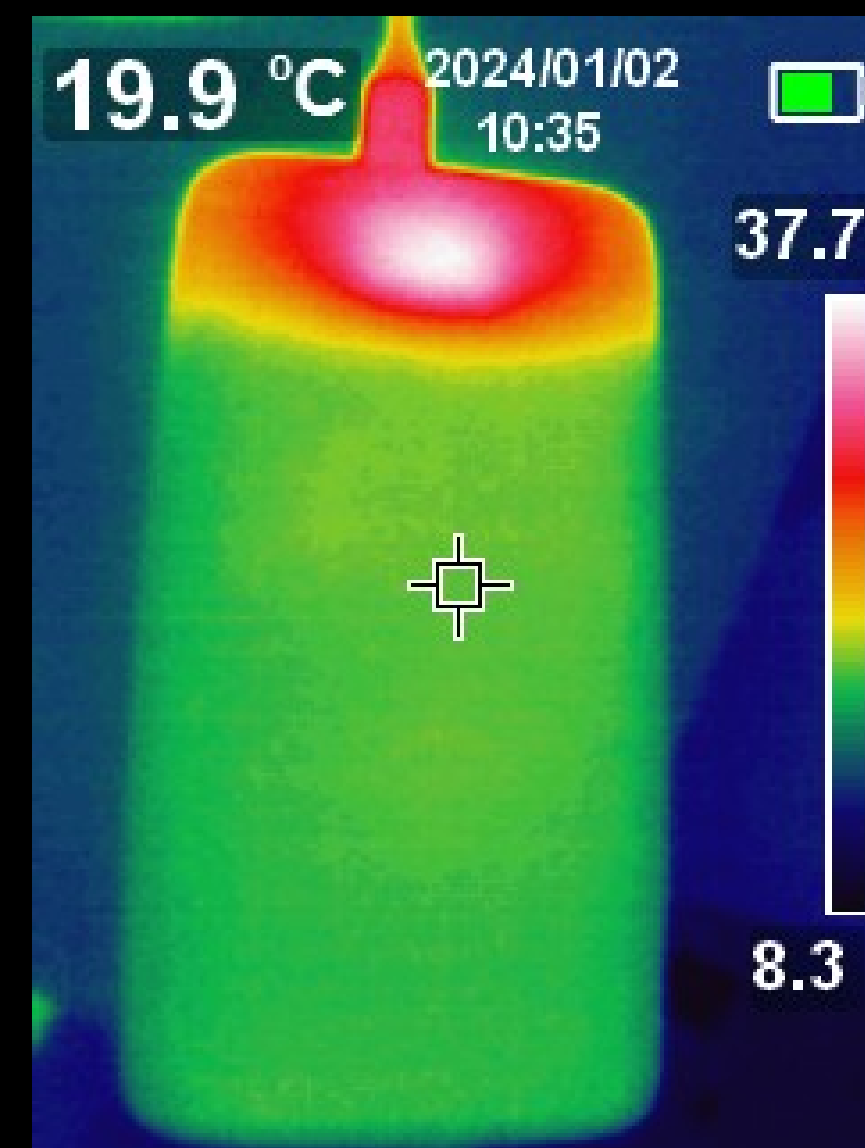
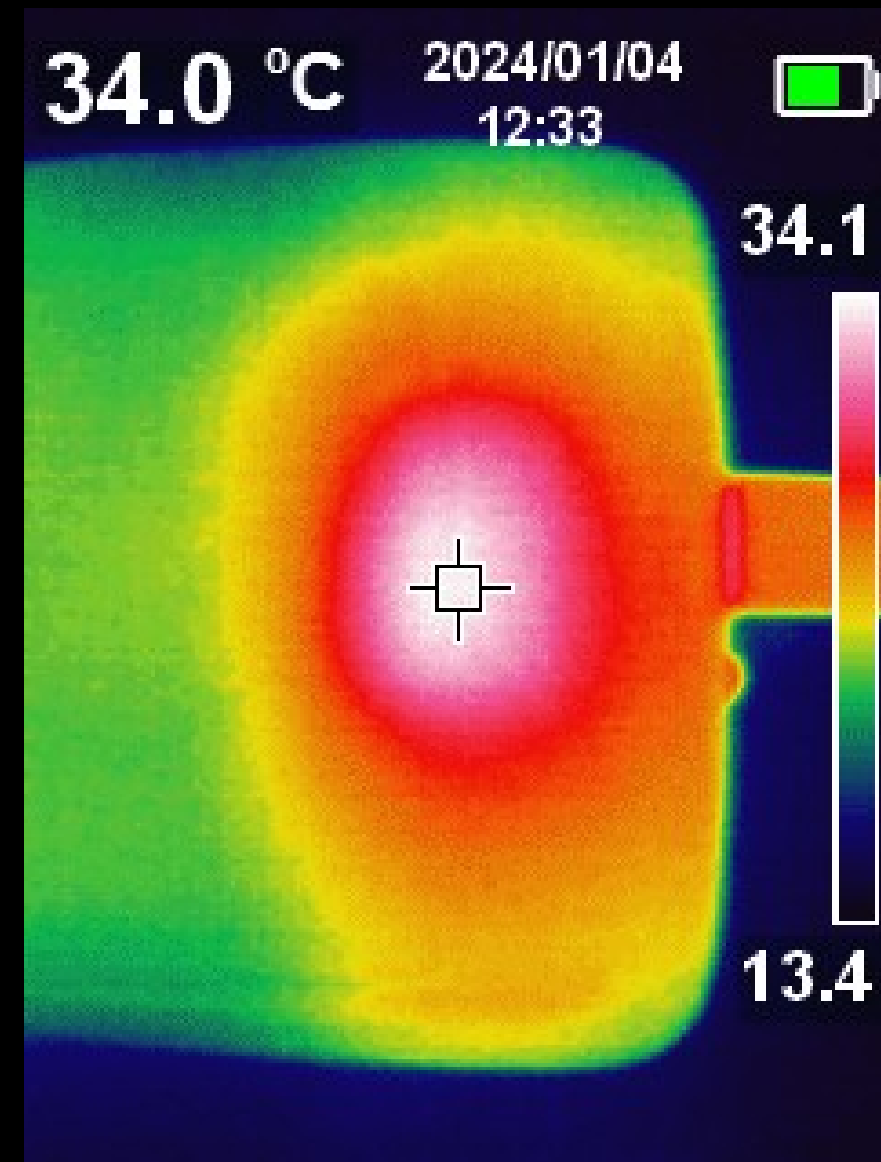
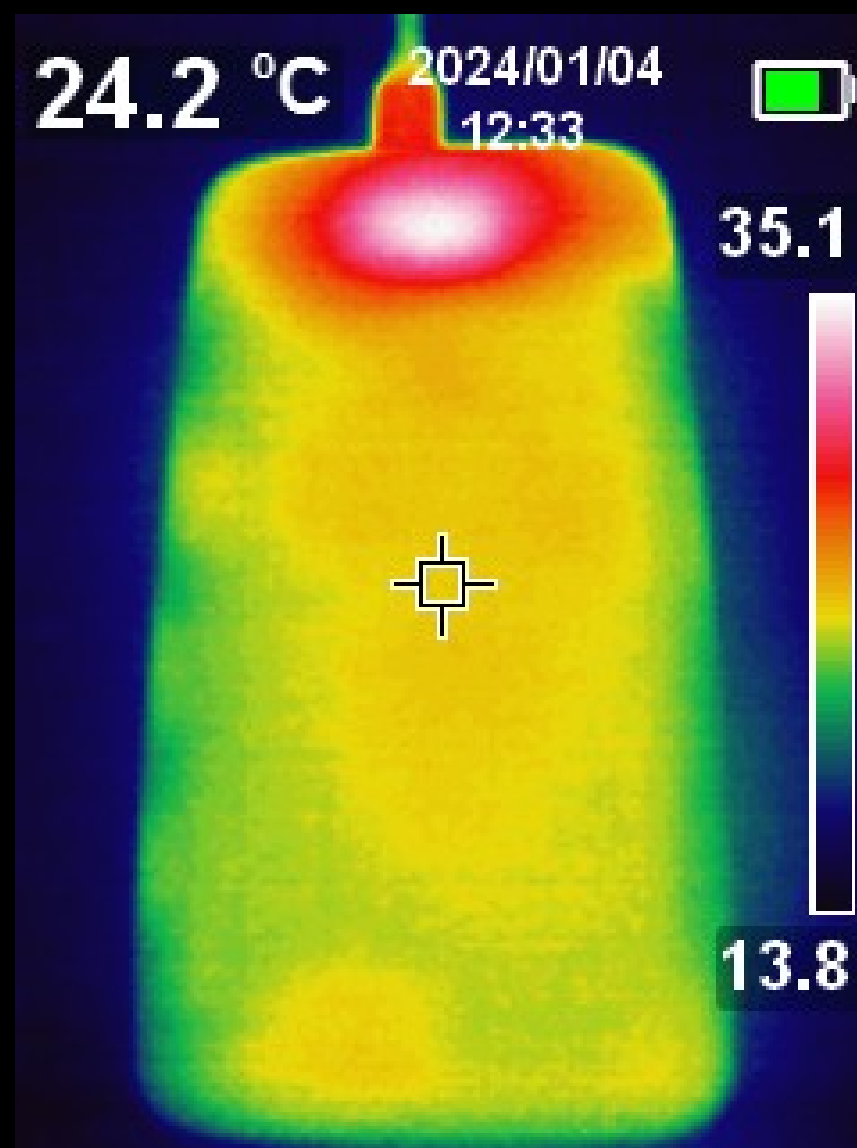


Thermal Images

Iniu PD 22.5 20000mAh BI-B5 Power Bank

Charging @ 18W

Discharging @ 20W



Thermal Images

Iniu PD 65W 25000mAh Power Bank BI-B63

Charging @ 45W

Discharging @ 65W

