



Universal Notebook Battery Pack

User's Manual



Thank you for purchasing *Energy Box* universal notebook battery pack. *Energy Box* is ideal when your notebook built-in battery gets depleted or when you want to increase your notebook battery runtime. Please read the user manual thoroughly before start using *Energy Box* and keep it in a safe place for future reference.

Safety precautions

Danger! Battery leakage, explosion or fire may be caused if you do not follow the below precautions carefully

In order to prevent battery leakage, heat or explosion, please be aware to:

- Do not throw the battery into water or fire. Avoid water (or any other liquid) seepage into the battery;
- Store the battery in a cool and dry place, do not use under extreme heat;
- Avoid to short circuit the battery terminals with metal objects, do not transport or store the battery with necklace, hair clipper or other metal objects near it;
- Avoid striking, throw or shaking the battery;
- Avoid piercing the battery shell via nail or other sharp objects, avoid to tamper with it, to hammer or to trample on the battery;
- Do not attempt to disassemble or alter the battery in any way.

This device is designed to power equipments like notebooks. Do not use it to support medical equipments directly related to human life.

Warning!

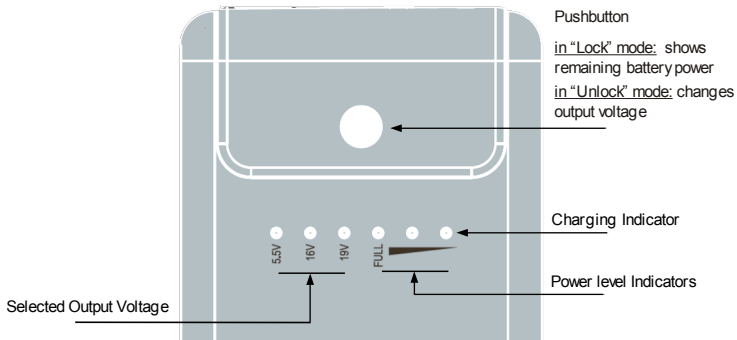
- Do not put battery into microwave oven or pressured vessel;
- Stop using when unusual smell, smoke, heating, colour-change of battery cover or other abnormalities come out of the battery;
- Keep away from the fire when leakage or unusual smell comes out from the battery;
- Leaked electrolyte may cause fire or explosion;
- Do not wipe your eyes if the leaked electrolyte enters into them: wash with running water and ask your doctor for immediate assistance, the eyes may be damaged if not treated timely.

Attention!

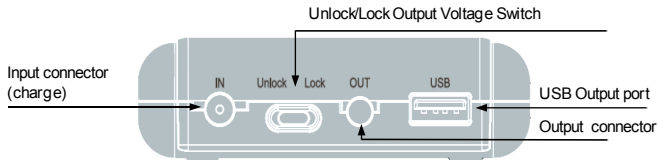
- Do not use the battery in extremely hot environment ($>40^{\circ}\text{C}$), like inside the car with direct sunlight or in summer. Otherwise, the battery becomes overheated. High temperatures decrease the battery performance and shorten its service life.
- If you have to store the battery for a long time (over three months), keep it charged to 50% of the rated capacity (charge once every 3 months), store it in a dry place with a temperature not beyond $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, and avoid the contact with corrosive objects. Keep away from the fire and heat sources in general.
- Teach children how to use the battery according to the user manual, and pay attention to guarantee their correct operations.
- If the battery leaks the electrolyte on skin or clothes, wash with running water, otherwise it will cause skin inflammation.

Functions Illustration

Front Panel Description



Rear Panel Description



Basic Operations

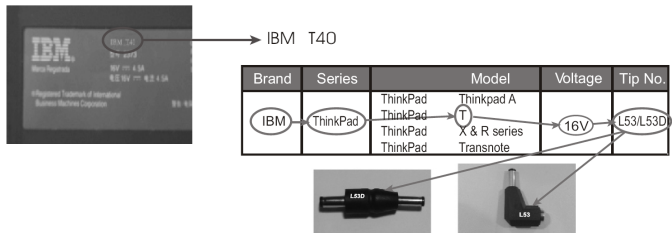
Energy Box provides two different voltage outputs (16V - 19V) in order to be compatible with most notebook models.

Step 1:

Before using *Energy Box*, make sure it is fully charged. Read the “how to charge” section carefully first.

Step 2:

Refer to the user manual of your notebook or check the label to figure out brand and model. From the compatibility list select the input (Lxx) and output (LxxD) proper tips and the voltage value according to the notebook brand and model. Take IBM T40 as an example.



The diagram illustrates the process of identifying a laptop model and selecting the correct Energy Box tip. It includes a photo of an IBM T40 label, a compatibility table, and photos of the L53 and L53D tips.

Label: IBM T40
Model: IBM T40
Voltage: 16V

| Brand | Series | Model | Voltage | Tip No. |
|-------|----------|-----------------------|---------|----------|
| IBM | ThinkPad | ThinkPad A | 16V | L53/L53D |
| | | ThinkPad X & R series | | |
| | | ThinkPad Transnote | | |

Tip No. L53 and L53D

If your laptop model is not included in the Compatibility List check the voltage of its power supply and then try if any of the tips can fit. Refer to “Tips

Specifications” chapter for the tips characteristics and polarity.

Step 3:

Set the battery pack output voltage at the value required by your notebook as follows:

1. Move the Lock/Unlock switch to Unlock position;
2. press the pushbutton to select output voltage. The output voltage is displayed by a LED (5.5V, 16V and 19V are selectable);
3. Move the Lock/Unlock switch back to Lock position;

Step 4:

Press the pushbutton on the front panel of the battery pack and check LED indicators. If only one or no indicators are lighted, it means that the battery is not charged and first you have to fully charge it using your notebook charger. Follow the instructions on the “how to charge” section in order to charge *Energy Box*. During the charge the first LED will be red lit. The fully charge status is indicated by the FULL LED (green) lit, and the red LED turned off. In order to improve the charge efficiency, during the charge process do not connect to *Energy Box* your notebook if its built-in battery is discharged.

Step 5:

Once *Energy Box* is fully charged, before proceeding the Lock/Unlock switch must be in Lock position. Then connect the selected output tip (LxD) to bundled output cable, then insert it into DC-IN connector of your notebook. Connect the other end of the output cable into OUT connector of *Energy Box*. The battery pack is now ready to supply power to your notebook. As soon as you connect the output cable, *Energy Box* will deliver selected voltage (16V or 19V) to your notebook.

Battery Level Indicators

Three power level LED indicators show *Energy Box* power status. By pressing the pushbutton on *Energy Box* during discharging or when it is on idle status (switch on Lock position), the remaining power level will be displayed for some second. Details on indicators status are as following:

| During charge | | During discharge | |
|-----------------|--|--------------------|--|
| 0% - 10% (red) | | 70% - 100% (green) | |
| 10% - 40% (red) | | 70% - 40% (green) | |
| 40% - 70% (red) | | 40% - 10% (green) | |
| 100% (green) | | <10% (green blink) | |

5.5V 16V 19V FULL

5.5V 16V 19V FULL

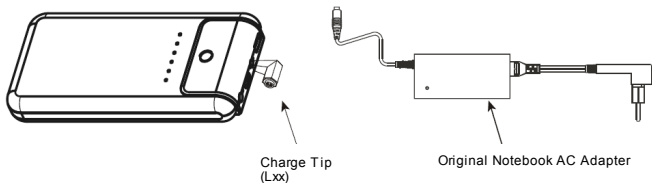
When the remaining power is below 10%, the battery pack goes into low voltage status. This condition is indicated by the first green LED blinking. When this happens, please save your work and switch to mains-operated power as soon as possible.

USB Output

The USB port provides a 5.5V supply. Connect USB input device (eg. Mobile Phone, MP3 player USB cable, etc.) to *Energy Box* USB port and 5.5V will be delivered to the device.

How to charge

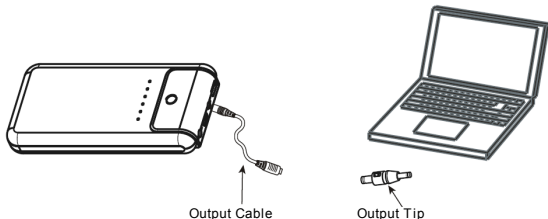
Connect the proper input tip (Lxx) to the notebook original AC adapter, then connect it to the IN connector of battery pack (refer to illustration for more details). Connect then the other terminal with electricity source to start the charge. During the charge the first LED will be red lit. The fully charge will be indicated by the FULL LED (green) lit, and the red LED turned off. In order to improve the charging efficiency, during the charge of *Energy Box* do not connect your notebook if built-in battery is discharged. Otherwise, the charge time lengthens.



Main Output Power

Before proceeding the Lock/Unlock switch must be in Lock position. Connect one terminal of the bundled output cable to the OUT connector of battery pack (refer to illustration for more details), and the other terminal to the proper output tip (LxxD) and then to the DC-IN connector of the notebook. **Note:** make sure *Energy Box* is at proper output voltage level (16V or 19V)

before connect it to the notebook. During battery pack discharge, it will offer power supply to notebook first and charge the notebook built-in battery with small current. In order to improve *Energy Box* runtime, take out the built-in battery from the notebook (if discharged) before connecting it to *Energy Box*.



Warnings & Protections

In case of high current requirement ($>3,2A$) or abnormal use, *Energy Box* internal temperature can raise to a high degree: should this happen, the battery pack will shut off automatically.

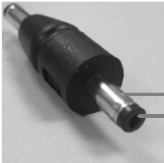
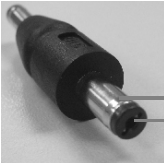
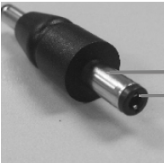
When the internal temperature decreases to a safe degree, the battery pack will turn on and unchain the safety protection automatically. Then it can be used again safely.

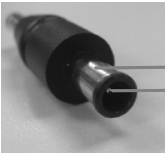
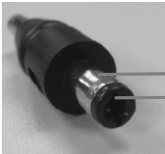
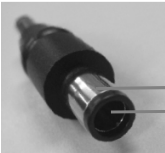

Do not use *Energy Box* with portable devices with high current requirement ($>3,2A$).

Technical Specifications

| Model | Energy Box – Universal Notebook Battery Pack |
|----------------------------------|--|
| Capacity | 4000mAh |
| Dimensions (W×D ×H) | 170 x 85 x 23 mm |
| Weight | 450 g |
| Operating Temperature | 0 °C ~ 40 °C |
| Input | |
| Charge Input (voltage / current) | 16Vdc~25Vdc / 4A ~ 2.5A |
| Charge Time | 2.5 ~ 3.5 h |
| Cycle Life | More than 300 full charging cycles |
| Output | |
| Capacity | 44.4 W/h |
| Voltage (OUT) | 16V, 19V (selectable) |
| Voltage (USB OUT) | 5.5V (USB port) |
| Current | 3.2 A |
| Max Constant Output Power | 50 W |
| Accessories | |
| Input Connector Tips | 6 Different types |
| Output Connector Tips | 6 Different types + 1 Output Cable |

Tips Specifications

| Model | Picture | Polarity | Dimension |
|-------|---|---|------------|
| L01D |  | <p style="text-align: center;">-</p> <p style="text-align: center;">center+</p> | 4.75x1.7mm |
| L51D |  | <p style="text-align: center;">-</p> <p style="text-align: center;">center+</p> | 5.5x1.7mm |
| L53D |  | <p style="text-align: center;">-</p> <p style="text-align: center;">center+</p> | 5.5x2.5mm |

| | | |
|--------------|---|-----------|
| L54D |  <p>Diagram showing the L54D connector with two arrows pointing to the inner contacts. The top arrow is labeled "-" and the bottom arrow is labeled "center+".</p> | 6.5x4.5mm |
| L55D |  <p>Diagram showing the L55D connector with two arrows pointing to the inner contacts. The top arrow is labeled "-" and the bottom arrow is labeled "center+".</p> | 6.3x3.0mm |
| L61D |  <p>Diagram showing the L61D connector with two arrows pointing to the inner contacts. The top arrow is labeled "-" and the bottom arrow is labeled "center+".</p> | 5.5x1.7mm |
| Output Cable |  <p>Diagram showing a black output cable with a connector at one end.</p> | 5.5x2.1mm |

Devices and Tips Compatibility List

| Brand | Series Model | Voltage | Tips Number |
|----------------|--|---------|--------------|
| Acer/TI | Extensa 501 Extensa 502 Extensa 503 Extensa 600 Series Extensa 700 Series Extensa 710 Series Extensa 712 Series | 19V | Output Cable |
| | Extensa 390 Extensa 390C Extensa 391 Extensa 392 Extensa 393 Extensa 394 Extensa 395 Extensa 512 Extensa 513 Extensa 514 Extensa 515 Extensa 516 Extensa 517 Extensa 610 Extensa 610CD Extensa 610CDT Extensa 616 Series Extensa 620 Series Extensa 690 Series Extensa 900 Series | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|-----------------|---------|-------------|
| Acer/TI | Travelmate 200 | 19V | L51/L51D |
| | Travelmate 201 | | |
| | Travelmate 202 | | |
| | Travelmate 203 | | |
| | Travelmate 204 | | |
| | Travelmate 205 | | |
| | Travelmate 210 | | |
| | Travelmate 212 | | |
| | Travelmate 213 | | |
| | Travelmate 220 | | |
| | Travelmate 222 | | |
| | Travelmate 260 | | |
| | Travelmate 261 | | |
| | Travelmate 270 | | |
| | Travelmate 290 | | |
| | Travelmate 290E | | |
| | Travelmate 310 | | |
| | Travelmate 311 | | |
| | Travelmate 312 | | |
| | Travelmate 313 | | |
| | Travelmate 314 | | |
| | Travelmate 330 | | |
| | Travelmate 332 | | |
| Travelmate 333 | | | |
| Travelmate 340 | | | |
| Travelmate 341 | | | |
| Travelmate 342 | | | |
| Travelmate 343 | | | |
| Travelmate 344 | | | |
| Travelmate 345 | | | |

| Brand | Series Model | Voltage | Tips Number |
|----------------|--------------------|---------|-------------|
| Acer/TI | Travelmate 346 | 19V | L51/L51D |
| | Travelmate 347 | | |
| | Travelmate 350 | | |
| | Travelmate 351-354 | | |
| | Travelmate 361-364 | | |
| | Travelmate 505 | | |
| | Travelmate 506 | | |
| | Travelmate 507 | | |
| | Travelmate 508 | | |
| | Travelmate 520 | | |
| | Travelmate 521 | | |
| | Travelmate 524 | | |
| | Travelmate 525 | | |
| | Travelmate 527-529 | | |
| | Travelmate 534 | | |
| | Travelmate 600 | | |
| | Travelmate 602 | | |
| | Travelmate 603 | | |
| | Travelmate 604 | | |
| | Travelmate 610 | | |
| | Travelmate 611 | | |
| Travelmate 612 | | | |
| Travelmate 613 | | | |
| Travelmate 614 | | | |
| Travelmate 620 | | | |
| Travelmate 621 | | | |
| Travelmate 622 | | | |
| Travelmate 623 | | | |
| Travelmate 630 | | | |
| Travelmate 631 | | | |

| Brand | Series Model | Voltage | Tips Number |
|------------------|--|----------------|--------------------|
| Acer/TI | Travelmate 632 Travelmate 633 Travelmate 710 Travelmate 720 Travelmate 721 Travelmate 722 Travelmate 723 Travelmate 730 Travelmate 732 Travelmate 734 Travelmate 735 Travelmate 736 Travelmate 737 Travelmate 738 Travelmate 739 Travelmate 740 Travelmate 741 Travelmate 742 Travelmate 743 Travelmate 744 | 19V | L51/L51D |
| ALPHA-TOP | U370 Micron | 19V | L53/L53D |
| | G756 U360 | 19V | Output Cable |
| AMI | FT6T20 TF6760 | 19V | L53/L53D |
| AST | Ascentia AST Ascentia A40 Ascentia A41 | 19V | L54/L54D |

| Brand | Series Model | Voltage | Tips Number |
|-------------|--|---------|-------------|
| AST | Ascentia A4 Ascentia A432 Ascentia A51 Ascentia A60 Ascentia A70 | 19V | L54/L54D |
| ASUS | A1000 Series ArtBook L7336 B1000 Series F7000 F7400 Grandio F7400 L1000B Series L2000B Series L2000D Series L2000E Series L3000C Series L3000S Series L7000 L7000C L7200 L7233 L7300 L8400 M1000 Series M2000 Series M2 Sereis MP8xxx Series S1000 Series T4700CS | 19V | L01/L01D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|---|----------------|--------------------|
| ASUS | T7200 T9000 Series | 19V | L01/L01D |
| BAYCOM | 2200 Series 2700 Series 2850 Series | 19V | L53/L53D |
| ChemUSA | Chembook 6120 Chembook 6120L Chembook 6120N Chembook 7020 | 19V | L55/L55D |
| | Chembook 1535 Chembook 2020 Chembook 2056 Chembook 2250 Chembook 2300 Chembook 2333 Chembook 2370VA Chembook 3015 Chembook 3015E Chembook 3815 Chembook 3830 Chembook 3830A Chembook 4025 Chembook 4027 Chembook 5200 Chembook 5400 Chembook 5580 Chembook 9400 Chembook 9750 | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|--|----------------|--------------------|
| ChemUSA | Chembook 9780 Chembook 9950 | 19V | L53/L53D |
| | Chembook 1200 Chembook 2060E Chembook 7200 Chembook 7300 Chembook 7400 Chembook 8200 Chembook 8400 Chembook 3300N | 19V | L01/L01D |
| Compaq | Armada 100 Armada 4100 Armada 4200 Series | 16V | Output Cable |
| | Armada 1100 Armada 1120 Armada 1125 Armada 1130 Armada 4110 Armada 4110D Armada 4110T Armada 4120 Armada 4120T Armada 4124D Armada 4125D Armada 4130 Armada 4130T Armada 4131 Armada 4131T | 19V | Output Cable |

| Brand | Series Model | Voltage | Tips Number |
|---------------|---|---------|--------------|
| Compaq | Armada 4150 Armada 4150T Armada 4160 Armada 4160T Armada 4210T Armada 4220T | 19V | Output Cable |
| | Armada 110 Armada E300 Armada E500 Armada E700 Armada M300 Armada M700 Armada V300 Armada 600 series Armada 800 series Armada M-series | 19V | L01/L01D |
| | Contura 3/20 Contura 3/25 Contura 3/25C Contura 4/20 Contura 4/25 Contura 4/25C Contura 4/25CX | 19V | Output Cable |
| | Contura 386/486 series Contura 400C Contura 400CX Contura 410C Contura 410CX | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|---------------|---|---------|-------------|
| Compaq | Contura 420C Contura 420CX Contura 430C Contura 430CX | 19V | L53/L53D |
| | Presario 1000 Presario 1010 Presario 1020 Presario 1030 Presario 1040 Presario 1050 Presario 1060 Presario 1065 Presario 1070 Presario 1072 Presario 1075 Presario 1080 Presario 1082 Presario 1084 Presario 1090 Presario 1207 Presario 1210 Presario 1215 Presario 1220 Presario 1221 Presario 1230 Presario 1232 Presario 1235 Presario 1236 Presario 1237 | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|---------------|----------------|---------|-------------|
| Compaq | Presario 1240 | 19V | L53/L53D |
| | Presario 1244 | | |
| | Presario 1245 | | |
| | Presario 1247 | | |
| | Presario 1250 | | |
| | Presario 1255 | | |
| | Presario 1256 | | |
| | Presario 1260 | | |
| | Presario 1262 | | |
| | Presario 1266 | | |
| | Presario 1267 | | |
| | Presario 1270 | | |
| | Presario 1272 | | |
| | Presario 1273 | | |
| | Presario 1274 | | |
| | Presario 1275 | | |
| | Presario 1277 | | |
| | Presario 1279 | | |
| | Presario 1280 | | |
| | Presario 1400 | | |
| | Presario 1400T | | |
| | Presario 1600 | | |
| | Presario 1610 | | |
| | Presario 1611 | | |
| | Presario 1615 | | |
| | Presario 1620 | | |
| Presario 1621 | | | |
| Presario 1622 | | | |
| Presario 1625 | | | |
| Presario 1630 | | | |

| Brand | Series Model | Voltage | Tips Number |
|---------------|-----------------|---------|-------------|
| Compaq | Presario 1640 | 19V | L53/L53D |
| | Presario 1650 | | |
| | Presario 1655 | | |
| | Presario 1665 | | |
| | Presario 1670 | | |
| | Presario 1672 | | |
| | Presario 1675 | | |
| | Presario 1680 | | |
| | Presario 1681 | | |
| | Presario 1685 | | |
| | Presario 1687 | | |
| | Presario 1688 | | |
| | Presario 1690 | | |
| | Presario 1692 | | |
| | Presario 1693 | | |
| | Presario 1694 | | |
| | Presario 1700 | | |
| | Presario 1700T | | |
| | Presario 1700XL | | |
| | Presario 1710 | | |
| | Presario 1710SB | | |
| | Presario 1800 | | |
| | Presario 1800T | | |
| | Presario 1800XL | | |
| | Presario 1810 | | |
| | Presario 1820 | | |
| Presario 1825 | | | |
| Presario 1827 | | | |
| Presario 1830 | | | |
| Presario 2700 | | | |

| Brand | Series Model | Voltage | Tips Number |
|----------------|--------------------------------|---------|-------------|
| Compaq | Presario 2700T | 19V | L53/L53D |
| | Presario 700 | | |
| | Presario 700Z | | |
| | Presario 701 | | |
| | Presario 702 | | |
| | Presario 703 | | |
| | Presario 704 | | |
| | Presario 705 | | |
| | Presario 705US | | |
| | Presario 706 | | |
| | Presario 710 | | |
| | Presario 711 | | |
| | Presario 712 | | |
| | Presario 713 | | |
| | Presario 714 | | |
| | Presario 715 | | |
| | Presario 716 | | |
| | Presario 717 | | |
| | Presario 718 | | |
| | Presario 719 | | |
| Presario 720 | | | |
| Presario 721 | | | |
| Presario 722 | | | |
| Presario 723 | | | |
| Presario 724 | | | |
| Presario 725 | | | |
| Presario 800 | | | |
| Presario 800XL | | | |
| | Prosignia 160 Prosignia 170 | 19V | L01/L01D |

| Brand | Series Model | Voltage | Tips Number |
|--------------|---|----------------|--------------------|
| | Prosignia 190 | | |
| DELL | Latitude 433M Latitude 433MC Latitude 433MCX Latitude 450MC Latitude 450MCX Latitude 475C Latitude 475D Latitude 475MC Latitude LX Latitude LXX 4100/T | 19V | L53/L53D |
| | Latitude LX 450 Latitude XP 4100 Latitude XP4100C Latitude XP4100CX Latitude XP4100T Latitude XP450C Latitude XP475C Latitude XP475D | 19V | L54/L54D |
| | Latitude D400 Latitude D410 Latitude D500 Latitude D505 Latitude D600 Latitude D610 Latitude D800 Latitude D810 Latitude X300 | 19V | L61/L61D |

| Brand | Series Model | Voltage | Tips Number |
|------------------|--|----------------|--------------------|
| DELL | Inspiron 1150 Inspiron 6000 Inspiron 8500 Inspiron 8600 Inspiron 9200 Inspiron 9300 Inspiron 300m Inspiron 500m Inspiron 600m Inspiron 700m | 19V | L61/L61D |
| | Precision M20 Precision M60 M70 Workstation | 19V | L61/L61D |
| Digital | HINOTE 700VP SERIES ERA-1000 | 19V | L53/L53D |
| DUAL | ERA 1000 VDA9950 | 19V | L53/L53D |
| E-Machine | Endeavor TK-300 | 16V | L53/L53D |
| | E Slate Series Action Note 800 | 19V | L53/L53D |
| | 866 880 890 895 900 910 | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|--|----------------|--------------------|
| EPSON | CtionNote 800 CtionNote 866 CtionNote 880 CtionNote 895 CtionNote 900 CtionNote 910 | 19V | L53/L53D |
| Featron | FT 8850 FT 9900 | 19V | L53/L53D |
| FUJITSU | Series B Series C Series E Series FMV Series CX Series L Series I Series S | 16V | L54/L54D |
| | Lifebook 270Dx Lifebook 280Dx Lifebook 400 Lifebook 420 Lifebook 420D Lifebook 435Dx Lifebook 470 Lifebook 520 Lifebook 520D Lifebook 520T Lifebook 530 Lifebook 530T | 16V | L54/L54D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|--|---------|-------------|
| FUJITSU | Lifebook 531T Lifebook 531T Lifebook 535T Lifebook 535TX Lifebook 555TX Lifebook 565TX Lifebook 585TX Lifebook 635 Lifebook 635T Lifebook 635TX Lifebook 655 Lifebook 655TX Lifebook 656TX Lifebook 675TX Lifebook 690TX Lifebook 735CDT Lifebook 735TX Lifebook 755TX Lifebook 756TX Lifebook 765DX Lifebook 765TX Lifebook 770TX Lifebook 785TX Lifebook 790TX Lifebook 985TX Lifebook 990TX Lifebook 990TX2 | 16V | L54/L54D |
| | Lifestyle Milan | 16V | L54/L54D |

| Brand | Series Model | Voltage | Tips Number |
|---------|---|---------|--------------|
| FUJITSU | MonteCarlo MontegoFujitsu LifeStyle Pen Centra 200 Stylistic 3400 Stylistic 2300 Stylistic 1200 Point 1600 Point 510 | 16V | L54/L54D |
| | Stylus 3400 Tablet | | |
| Gateway | Solo 1100 Solo 1150 Solo 1400 Solo 1450 Solo 1200 Solo 9550 GATEWAY Solo 2100-9500 series except 3300,3450 and 3350 | 19V | Output Cable |
| HITACHI | Flora Prius 210 Flora Prius 220N | 16V | L53/L53D |
| | Vision Book Pro Vision Book Elite Vision Book Plus Vision Book E Vision Book E100D Vision Book E100DC Vision Book E100DN | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|--|---------|-------------|
| HITACHI | Vision Book E133D Vision Book E133DN Vision Book E133T Vision Book E133TC Vision Book MX133T Vision Book MX150T Vision Book MX166T | 19V | L53/L53D |
| | Flora prius 20L | 19V | L54/L54D |
| HP | Pavilion Zt1125 Pavilion Zt1130 Pavilion Zt1131 Pavilion Zt1132 Pavilion Zt1135 Pavilion Zt1141 Pavilion Zt1142 Pavilion Zt1145 Pavilion Zt1150 Pavilion Zt1151 Pavilion Zt1152 Pavilion Zt1155 Pavilion Zt1161 Pavilion Zt1162 Pavilion Zt1170 Pavilion Zt1171 Pavilion Zt1172 Pavilion Zt1175 Pavilion Zt1180 Pavilion Zt1181 | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number | | |
|-----------|--|---------|-------------|-----|----------|
| HP | Pavilion Zt1182 Pavilion Zt1185 Pavilion Zt1190 Pavilion Zt1192 Pavilion 5200 series Pavilion 5400 series Pavilion ZE Pavilion ZT Pavilion ZU series Pavilion Xh455 Pavilion Xh485 Pavilion Xh535 Pavilion Xh545 Pavilion Xh555 Pavilion Xh575 Pavilion Xh675 Pavilion Xu155 Pavilion Xz185 Pavilion Xz275 Pavilion Ze1110 Pavilion Zt1114 Pavilion Zt1120 Pavilion Zt1121 | 19V | L53/L53D | | |
| | Omnibook 2000 Omnibook 2100 Omnibook 2103 Omnibook 2105 Omnibook 3000 Omnibook 3100 | | | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number | | |
|-----------|---|---------|-------------|-----|----------|
| HP | Omnibook 3101 Omnibook 3250 Omnibook 4000 Omnibook 4000C Omnibook 4000CT Omnibook 4000E Omnibook 4000M Omnibook 4100 Omnibook 4150 Omnibook 4150B Omnibook 6000 Omnibook 6050 Omnibook 6100 Omnibook 6200 Omnibook 7100 Omnibook 7103 Omnibook 7150 Omnibook Vt6200 Omnibook Xt1000 | 19V | L53/L53D | | |
| | XT15 2000 6000 series 7100 series 7150 series XE series XE2 series XE3 series 900 series | | | 19V | L53/L53D |
| | N1340 N3100 | | | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|-----------|--------------|---------|-------------|
| HP | N3110 | 19V | L53/L53D |
| | N3150 | | |
| | N3200 | | |
| | N3215 | | |
| | N3250 | | |
| | N3270 | | |
| | N3290 | | |
| | N3295 | | |
| | N3300 | | |
| | N3390 | | |
| | N3400 | | |
| | N3402 | | |
| | N3410 | | |
| | N3438 | | |
| | N3478 | | |
| | N3490 | | |
| | N5000 | | |
| | N5100 | | |
| | N5125 | | |
| | N5150 | | |
| | N5170 | | |
| | N5190 | | |
| | N5195 | | |
| | N5200 | | |
| | N5210 | | |
| N5240 | | | |
| N5250 | | | |
| N5270 | | | |
| N5290 | | | |
| N5295 | | | |

| Brand | Series Model | Voltage | Tips Number |
|-----------|--------------|---------|-------------|
| HP | N5300 | 19V | L53/L53D |
| | N5310 | | |
| | N5311 | | |
| | N5340 | | |
| | N5421 | | |
| | N5422 | | |
| | N5425 | | |
| | N5430 | | |
| | N5435 | | |
| | N5440 | | |
| | N5441 | | |
| | N5442 | | |
| | N5444 | | |
| | N5445 | | |
| | N5450 | | |
| | N5452 | | |
| | N5454 | | |
| | N5455 | | |
| | N5461 | | |
| | N5462 | | |
| | N5470 | | |
| | N5472 | | |
| | N5474 | | |
| | N5475 | | |
| | N5481 | | |
| N5482 | | | |
| N5484 | | | |
| N5490 | | | |
| N5491 | | | |
| N5495 | | | |

| Brand | Series Model | Voltage | Tips Number |
|------------|--|---------|--------------|
| HP | N5511 N5584 N6191 N6195 N6395 N6396 N6397 N6398 N6399 N6400 N6401 N6403 N6404 N6490 | 19V | L53/L53D |
| IBM | ThinkPad I- Series 1410 ThinkPad I- Series 1411 ThinkPad I- Series 1441 ThinkPad I- Series 1450 ThinkPad I- Series 1451 ThinkPad I- Series 1472 series | 19V | Output Cable |
| | ThinkPad I- Series 1200 ThinkPad I- Series 1210 ThinkPad I- Series 1230 ThinkPad I- Series 1250 ThinkPad I- Series 1260 ThinkPad I- Series 1300 ThinkPad I- Series 1330 ThinkPad I- Series 1400 | 16V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number | | |
|------------|---|---------|-------------|-----|----------|
| IBM | ThinkPad I- Series 1412 ThinkPad I- Series 1418 ThinkPad I- Series 1420 ThinkPad I- Series 1434 ThinkPad I- Series 1435 ThinkPad I- Series 1436 ThinkPad I- Series 1442 ThinkPad I- Series 1470 ThinkPad I- Series 1476 ThinkPad I- Series 1480 ThinkPad I- Series 1500 ThinkPad I- Series 1512 ThinkPad I- Series 1540 ThinkPad I- Series 1541 ThinkPad I- Series 1552 ThinkPad I- Series 1560 ThinkPad I- Series 1700 ThinkPad I- Series 1720 ThinkPad I- Series 1721 | 16V | L53/L53D | | |
| | ThinkPad 235 ThinkPad 240 ThinkPad 290 ThinkPad 310 ThinkPad 340 ThinkPad 345 ThinkPad 365 ThinkPad 380 ThinkPad 385 ThinkPad 390 | | | 16V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|---|----------------|--------------------|
| IBM | ThinkPad 535 ThinkPad 560 ThinkPad 570 ThinkPad 600 ThinkPad 701 ThinkPad 770 ThinkPad 2621-xxx ThinkPad 1161-xxx ThinkPad 1171-xxx | 16V | L53/L53D |
| | ThinkPad 600X Series ThinkPad 2645 ThinkPad 2611 ThinkPad Thinkpad A ThinkPad T ThinkPad X & R series ThinkPad Transnote | 16V | L53/L53D |
| | ThinkPad 730T ThinkPad 350Series ThinkPad 500 ThinkPad 510 Series | 19V | Output Cable |
| ITRONIX | GoBook Series | 19V | Output Cable |
| JETBOOK | Jetbook Series | 19V | L53/L53D |
| LEO | Designote 6800 9800 Green 400 | 19V | L53/L53D |
| | | | |

| Brand | Series Model | Voltage | Tips Number |
|------------------|--|---------|-------------|
| NEC | Ready 220T Ready 330T Ready 340T Ready 360T series Ready 440T Ready VX | 19V | L53/L53D |
| PANASONIC | ToughBook Cf01 ToughBook Cf07 ToughBook Cf17 ToughBook Cf25 ToughBook Cf27 ToughBook Cf28 ToughBook Cf33 ToughBook Cf34 ToughBook Cf35 ToughBook Cf37 ToughBook Cf41 ToughBook Cf42 ToughBook Cf45 ToughBook Cf47 ToughBook Cf48 ToughBook Cf61 ToughBook Cf62 ToughBook Cf63 ToughBook Cf71 ToughBook Cf72 ToughBook Cf-105B ToughBook Cf-170 ToughBook Cf-270 ToughBook Cf-37 | 16V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|------------------|---|----------------|--------------------|
| PANASONIC | ToughBook Cf-380 ToughBook Cf-M34 ToughBook Cf-V21 ToughBook Cf-V21P ToughBook Cf-V25 ToughBook Cf-V41 ToughBook Cf-V45 | 16V | L53/L53D |
| PRIMEBOOK | P series | 19V | L53/L53D |
| QUANTEX | H series I series T series W series 1550 TS30T H-1331 | 19V | L53/L53D |
| SAMSUNG | Pro sens 500 Pro sens 522 Pro sens 523 Pro sens 524 Pro sens 525 | 19V | L54/L54D |
| | Samsung GT 8000 | 19V | Output Cable |
| SHARP | Sharp Pc3000 Sharp Pc3010 Sharp Pc3020 Sharp Pc3030 Sharp Pc3040 Sharp Pc3050 | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|--------------|---|---------|-------------|
| SHARP | Sharp Pc3060 Sharp Pc3070 Sharp Pc3080 Sharp Pc3150 Sharp Pc9000 Sharp Pc9010 Sharp Pc9020 Sharp Pc9030 Sharp Pc9040 Sharp Pc9050 Sharp Pc9340T | 19V | L53/L53D |
| SONY | Vaio GR Vaio SR Vaio SRX Vaio VX series Vaio 161L Vaio PCG-500 Vaio PCG-505 Vaio PCG-505EX Vaio PCG-505F Vaio Picturebook PCG-C1X Vaio 505, PCG-505FX Vaio PCG-505G Vaio PCG-505GX Vaio PCG-505LS Vaio PCG-505TR Vaio PCG-505TS Vaio PCG-505TX Vaio PCG-505X Vaio Picturebook PCG-C1X | 16V | L54/L54D |

| Brand | Series Model | Voltage | Tips Number |
|------------------------|-----------------------|---------|-------------|
| SONY | Vaio PCG-XG | 19V | L54/L54D |
| | Vaio 808 | | |
| | Vaio 812 | | |
| | Vaio 818 | | |
| | Vaio 838 | | |
| | Vaio PCG-Z505 | | |
| | Vaio PCG-Z600 | | |
| | Vaio PCG-R600 | | |
| | Vaio QR series | | |
| | Vaio PCG-430 thru 490 | | |
| | Vaio PCG-431 | | |
| | Vaio PCG-450 | | |
| | Vaio PCG-461 | | |
| | Vaio PCG-480 | | |
| | Vaio PCG-481 | | |
| | Vaio PCG-490 | | |
| | Vaio PCG-491 | | |
| | Vaio PCG-700 | | |
| | Vaio PCG-705C | | |
| | Vaio PCG-707C | | |
| | Vaio PCG-717C | | |
| | Vaio PCG-719C | | |
| | Vaio PCG-731 | | |
| Vaio PCG-735 | | | |
| Vaio PCG-737 | | | |
| Vaio PCG-745 | | | |
| Vaio PCG-747 | | | |
| Vaio PCG-705 thru 748C | | | |
| Vaio PCG-F | | | |
| Vaio FX | | | |

| Brand | Series Model | Voltage | Tips Number | | | | | |
|-------------|---|---------|-------------|--|-----|----------|-----|----------|
| SONY | Vaio XG series Vaio 580 Vaio 800 Vaio 161L Vaio PCG-900 Vaio PCG-955A Vaio PCG-9401 Vaio PCG-Z505 Vaio PCG-Z600 Vaio PCG-Z600 Vaio PCG-R600 Vaio QR Series | 19V | L54/L54D | | | | | |
| | TOSHIBA | | | Libretto 20CT Libretto 30CT Libretto 50CT Libretto 60CT Libretto 70CT | 16V | L55/L55D | | |
| | | | | Protégé 300 Protégé 320 Protégé 610 Protégé 620 Protégé 650 Protégé 660 Protégé 3400 Protégé 3600 Protégé 7000 Protégé 7010 Protégé 7020 Protégé 7030 | | | 16V | L55/L55D |

| Brand | Series Model | Voltage | Tips Number |
|---------|--|---------|--------------|
| TOSHIBA | Protégé 7140 Protégé 7200 Protégé M200 Tablet Protégé R100 | 16V | L55/L55D |
| | Satellite A85 Satellite 1000 Satellite 1005 Satellite 1600 Satellite 1605 Satellite 1625 Satellite 1700 Satellite 3000 Satellite M30X Satellite M35X | 19V | L53/L53D |
| | Satellite T1850 Satellite T1900 Satellite T1910 Satellite T1950 Satellite T1960 Satellite T2400 Satellite T3400 Satellite T3600 Satellite T4500 Satellite T4600 Satellite T4700 Satellite T4700C Satellite T4700CS Satellite T4700CT Satellite T4700 | 19V | Output Cable |

| Brand | Series Model | Voltage | Tips Number |
|----------------|--|---------|--------------|
| TOSHIBA | Satellite T4800 Satellite T4800CT Satellite T4850CT Satellite T4900 Satellite T4900CT Satellite T4950CT | 19V | Output Cable |
| | Satellite T200 thru 4100 Satellite 200 Satellite 220 Satellite 225 Satellite 305 Satellite 315 Satellite 320 Satellite 325 Satellite 330 Satellite 335 Satellite 440 Satellite 460 Satellite 470 Satellite 480 Satellite 490 Satellite 1555 Satellite 1800 Satellite 2000 Satellite 2100 Satellite 2140 Satellite 2180 Satellite 2210 Satellite 2280 Satellite 2500 | 16V | L55/L55D |

| Brand | Series Model | Voltage | Tips Number |
|---------------------|--|---------|-------------|
| TOSHIBA | Satellite 2590 | 16V | L55/L55D |
| | Satellite 2600 | | |
| | Satellite 2615 | | |
| | Satellite 2655 | | |
| | Satellite 2675 | | |
| | Satellite 2700 | | |
| | Satellite 2715 | | |
| | Satellite 2800 | | |
| | Satellite 2805 | | |
| | Satellite 4000 | | |
| | Satellite 4010 | | |
| | Satellite 4020 | | |
| | Satellite 4030 | | |
| | Satellite 4060 | | |
| | Satellite 4080 | | |
| | Satellite 4090 | | |
| | Satellite410 | | |
| | Satellite 4200 | | |
| | Satellite 4280 | | |
| | Satellite 4300 | | |
| Satellite 4600 | | | |
| Satellite 1800-S203 | | | |
| Satellite 1800-S253 | | | |
| Satellite 2250XCDS | | | |
| Satellite 2250CDT | | | |
| Satellite M30 | | | |
| | Satellite Pro 400 Satellite Pro 405 Satellite Pro 410 Satellite Pro 415 | 16V | L55/L55D |

| Brand | Series Model | Voltage | Tips Number |
|----------------|---|---------|-------------|
| | Satellite Pro 420 Satellite Pro 425 Satellite Pro 430 Satellite Pro 435 Satellite Pro 440 Satellite Pro 445 Satellite Pro 460 Satellite Pro 465 Satellite Pro 470 Satellite Pro 480 Satellite Pro 490 Satellite Pro 490X Satellite Pro CDX Satellite Pro CDS | 16V | L55/L55D |
| TOSHIBA | Tecra 500 Tecra 505 Tecra 510 including CDT Tecra M1 Tecra M2 Tecra S1 Tecra 520 Tecra 530 Tecra 550 Tecra 700 Tecra 710 Tecra 720 Tecra 730 Tecra 730X Tecra 740 Tecra 750 | 16V | L55/L55D |

| Brand | Series Model | Voltage | Tips Number |
|-----------------|--|----------------|--------------------|
| TOSHIBA | Tecra 780 Tecra 8000 Tecra 8100 Tecra 8200 Tecra 9000 Tecra 9100 | 16V | L55/L55D |
| | 4090XDVD 2545CDS | 16V | Output Cable |
| TRIGEM | Dreamboo A Dreamboo F Dreamboo T Dreamboo U Dreamboo X Dreamboo A Dreamboo F Dreamboo T Dreamboo U Dreamboo X | 19V | L01/L01D |
| Twinhead | Figaro 300TG Figaro 500TZ.500TG Figaro P88T Figaro 600 | 19V | L53/L53D |
| | SlimNote 910CV SlimNote 9133TV SlimNote 9133TZ SlimNote 9159TZ SlimNote 9166TZ SlimNote VX | 19V | L53/L53D |

| Brand | Series Model | Voltage | Tips Number |
|------------------|--|---------|--------------|
| Twinhead | SlimNote VXE SlimNote VXE3 SlimNote Gx2 SlimNote 602TZ | 19V | L53/L53D |
| | Marco Polo S Body Power Slim 601TZ Power Slim 600 | 19V | Output Cable |
| VIEWSONIC | Viewsonic Viewpad 1000 | 16V | L53/L53D |
| | Viewsonic Viewpad 100 | 19V | L53/L53D |
| Winbook | Winbook XP Series Winbook Xp5 Pro Series Winbook FX Series Winbook Si Series Winbook Z Series Winbook X Series Winbook J Series (all models) | 19V | L53/L53D |
| | Winbook XL Winbook XL2 Winbook X L3 Series | 19V | L51/L51D |



1. The above list is to be considered a partial list. Additional tips not bundled with Energy Box might be necessary for compatibility with digital devices not included on the list.

2. Standard Tips bundled: L01, L01D, L51, L51D, L53, L53D, L54, L54D, L55, L55D, L61, L61D

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