

**INSTRUCTION MANUAL****Portable Power Station**

- QUIET, LITHIUM-ION POWERED 546Wh, 24.8Ah (22.02V) BATTERY CAPACITY
- FLEXIBLE POWER WITH 4 USB PORTS (INCLUDING 2 USB-C), 2 AC OUTLETS
- REAL-TIME TELEMETRY FROM ON-BOARD LCD DISPLAY



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## GENERAL SPECIFICATIONS

The Klein Tools KTB5 is a portable battery pack with the ability to supply 300W of pure sine wave AC power via the two on-board AC outlets. Additionally, the battery pack is able to support USB quick charging via the on-board USB-C ports, and standard USB-A ports. Overall storage capacity is 546Wh of energy.

- **Capacity:** 546Wh (24.8Ah / 22.02V)
- **Cell Type:** 18650
- **Cell Chemistry:** Li-Ion
- **Input:** 8mm round port 25.2V DC / 3.5A
- **AC Output:** 120V each plug, 300W shared / 600W peak
- **USB Output** (total output 30W): **USB-A:** 2 x 5V 2.4A, **USB-C:** 2 x 5V 3.0A
- **Operating / Storage Altitude:** 6562 ft. (2000m)
- **Operating / Storage Maximum Humidity:** <75% non-condensing
- **Operating Temp:** 14° to 104°F (-10° to 40°C)
- **Charging Temp:** 32° to 104°F (0° to 40°C)
- **Storage Temp:** -4° to 113°F (-20° to 45°C)
- **Dimensions:** 7.25" x 11.75" x 7.5" (184 x 298 x 191mm)
- **Weight:** 14.8 lbs (6.71 kg)
- **Life Expectancy:** 500 cycles to 70% capacity typical (depending on use and care)
- **Standards:** UL1642,  
IEC/EN60950-1, IEC/EN60665,  
IEC62133, IEC60086-4, IEC62281,  
UN38.3
- **Charging Time:** Full charge 8 to 10 hours
- **Shelf Life:** Charge every 3 months (fully charge before storage)
- **Transportation:** This unit complies with all legal requirements for transport of dangerous goods. The capacity of the lithium battery pack exceeds 100Wh. Based on international standards, if this unit is transported by airplane, it must be transported in accordance with IATA standard packaging. IATA instructions and labeling requirements and the relevant declarations must be completed.

*Specifications subject to change.*

## ⚠ WARNINGS

**To ensure safe operation and service of the meter, follow these instructions. Failure to observe these warnings can result in severe injury or death.**

- Do **NOT** use portable battery in excess of its output rating. Overload outputs above rating may result in a risk of fire or injury to persons.
- Use of a power supply, charger, or cable not recommended or sold by portable battery manufacturer may result in a risk of fire or injury to persons.
- Do **NOT** use portable battery or AC wall charger, if it is damaged or has been modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- Do **NOT** subject to vibration, impacts, or drops. Secure the unit during transport. The housing may not show signs of damage, but internal components may have been compromised. It is advisable to replace the unit if any such severe events occur.
- Do **NOT** expose portable battery to moisture, rain, or snow.
- Keep away from high voltage electrical fields.
- Do **NOT** attempt to repair portable battery or AC wall charger. There are no user-serviceable components inside.
- Risk of fire and burns, do not open, crush, heat above 140F (60C) or incinerate. Follow all instructions.
- **NOT** intended for use with plug types or adapters not listed on the product label.
- Do **NOT** handle unit with wet hands.
- Do **NOT** place the unit on its side or upside down while in use or in storage.
- If rust, odor, overheating, or other abnormal circumstance are observed, stop using and contact Klein Tools customer service.

## COMPLIANCE

### FCC & IC COMPLIANCE

This device complies with part 15 of the FCC RULES and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

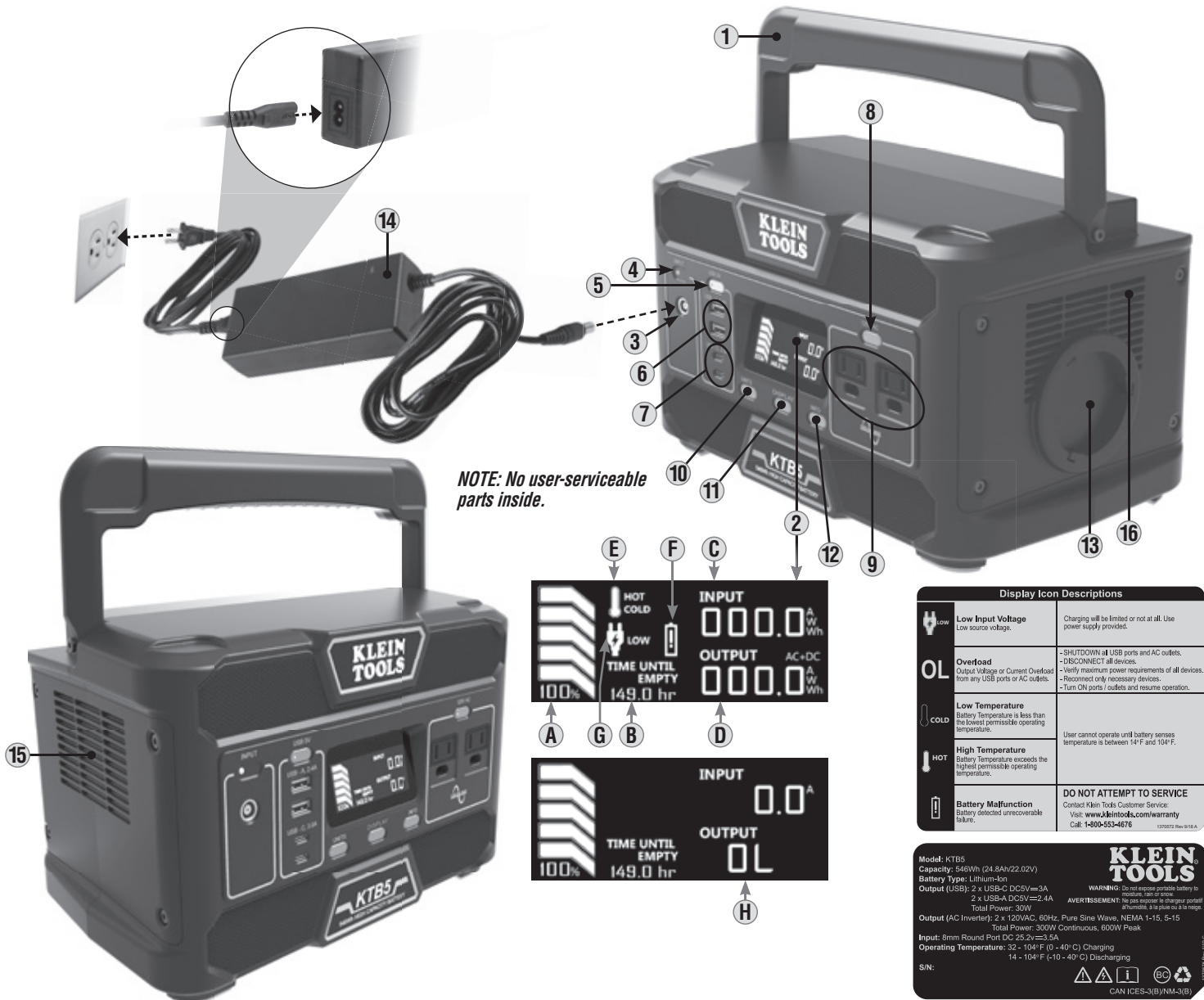
**NOTE:** The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

### IC NOTICE TO CANADIAN USERS

This device complies with industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

This device complies with RSS-247 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference. This Class B digital apparatus complies with Canadian ICES-003.

## FEATURE DETAILS



**NOTE: No user-serviceable parts inside.**

Display Icon Descriptions	
	<b>Low Input Voltage</b> Low source voltage. Charging will be limited or not at all. Use power supply provided.
	<b>Overload</b> Output Voltage or Current Overload from any USB ports or AC outlets. - SHUTDOWN at USB ports and AC outlets. - DISCONNECT all devices. - Verify maximum power requirements of all devices. - Reconnect only necessary devices. - Turn ON ports / outlets and resume operation.
	<b>Low Temperature</b> Battery Temperature is less than the lowest permissible operating temperature. User cannot operate until battery senses temperature is between 14°F and 104°F.
	<b>High Temperature</b> Battery Temperature exceeds the highest permissible operating temperature. User cannot operate until battery senses temperature is between 14°F and 104°F.
	<b>Battery Malfunction</b> Battery detected unrecoverable failure. <b>DO NOT ATTEMPT TO SERVICE</b> Contact Klein Tools Customer Service: Visit: <a href="http://www.kleintools.com/warranty">www.kleintools.com/warranty</a> Call: 1-800-553-4676

<b>Model:</b> KTBS <b>Capacity:</b> 540Wh (24.8Ah@22.02V) <b>Battery Type:</b> Lithium-Ion <b>Output (USB):</b> 2 x USB-C DC5V=3A <b>Total Power:</b> 30W <b>Output (AC Inverter):</b> 2 x 120VAC, 60Hz, Pure Sine Wave, NEMA 1-15, 5-15 <b>Total Power:</b> 300W Continuous, 600W Peak <b>Input:</b> 8mm Round Port DC 25.2V=3.5A <b>Operating Temperature:</b> 32~104°F (0~40°C) Charging 14~104°F (-10~40°C) Discharging <b>S/N:</b>	 <b>WARNING:</b> Do not expose portable battery to excessive sun or heat. <b>ADVERTISMENT:</b> No gas exposure to charger port. PHENOLIC IS INFLAMMABLE AND MELTS. CAN ICES-3(B)/NM-3(B)
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### BATTERY FEATURES

1. Handle
2. LCD Screen
3. AC Charger Input
4. AC Charging Indicator LED
5. USB Output ON/OFF Button
6. USB-A Ports (5V / 2.4A output)
7. USB-C Ports (5V / 3A output)
8. AC Outlet ON/OFF Button
9. AC Outlets (120V / 300W)
10. UNITS Button
11. DISPLAY Button
12. INFO Button
13. Klein Tools Accessory Mount
14. AC Wall Charger
15. Air Intake Vent w/ Fan
16. Air Exhaust Vent

### SYMBOLS ON BATTERY

- Warning or Caution
- Risk of Electrical Shock
- Read Instructions
- Conforms with BCS regulations of California Energy Commission
- WEEE - Battery disposal
- Recyclable

### LCD FEATURES

- A. Battery Level Indicator
- B. Time Until Full / Empty
- C. Input Stats
- D. Output Stats
- E. Hot / Cold Indicator
- F. Battery Malfunction Indicator
- G. Low Input Voltage Indicator
- H. Overload Condition Indicator

### SYMBOLS ON LCD

- LOW** Low Source Voltage. This will result in very limited charge, or none at all. Recommended to only use supplied wall charger.
- OL** See OVERLOAD CONDITION in OPERATING INSTRUCTIONS section of this manual
- HOT** The battery temperature is higher than rated operating temperature, the unit may not function, or provide limited output capability during this time. See GENERAL SPECIFICATIONS for operating temperature
- COLD** The battery temperature is less than rated operating temperature, the unit may not function, or provide limited output capability during this time. See GENERAL SPECIFICATIONS for operating temperature
- The battery management system has detected an unrecoverable failure. **DO NOT ATTEMPT TO SERVICE**  
Contact Klein Tools Customer Service Directly. Visit: [www.kleintools.com/warranty](http://www.kleintools.com/warranty)  
Call: 1-800-553-4676

### SYMBOLS ON WALL CHARGER

- Warning or caution
- Risk of Electrical Shock
- Read Instructions
- Indoor use only
- Double insulated
- Efficiency Rating
- Conformité Européenne:** Conforms with European Economic Area directives
- This product meets applicable UL standards
- This product meets applicable NOM standards
- WEEE - Battery disposal

<b>AC ADAPTER</b> MODEL: VHM-25030300 INPUT: AC 120V-240V OUTPUT: 25.2V=3.5A MADE IN CHINA	    
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## FUNCTION BUTTONS

**UNITS ⑩**

Press the UNITS button to display amps, watts, and watt-hours information for inputs and outputs. When using both USB and AC outputs, amps will only be display on the circuit that was initially activated. To cycle to the amp output from the other port, the INFO (12) button must be pushed. The data provided is real-time and will adjust as the load changes from the device that is plugged into the portable battery.

**DISPLAY ⑪**

Press the DISPLAY button to illuminate the LCD for short duration. Press and hold the DISPLAY button to keep LCD illuminated indefinitely. Press and hold the DISPLAY button again to return to default mode.

**INFO ⑫**

Press the INFO button for details on battery performance level. Press button to cycle amps between USB and AC outputs, when both are in use.

## DETAILS DISPLAYED ON LCD

**BATTERY LEVEL ⑬:** The battery level is provided by percentage of battery charge corresponding to the number of bars and percentage displayed. The bars in the battery level correspond to the current state of charge, 0-20%, 21-40%, 41-60%, 61-80%, and all five are lit when charge level is above 81%.

**TIME UNTIL EMPTY/FULL ⑭:** Provides the user live telemetry data on time to completely charge, or deplete the battery based upon the energy entering or leaving the battery. Please be aware that this value can adjust multiple times as the energy draw changes from the connected devices. This is evident during initial activation of ports with a connected device.

**INPUT ⑮:** The KTB5 is capable of providing input energy in watts, watt-hr, or amps.

**OUTPUT ⑯:** The display will only provide amp output of the AC port or the DC port, not a combined value. Refer to function button details on how to display amp output from each port, if both are in use.

**COOLING FAN ⑰:** KTB5 utilizes an internal cooling fan to ensure the product is operating within the appropriate temperature range. The unit, when it experiences a higher output load, will automatically turn on the fan. During discharge, and possibly charging, the fan may operate intermittently to keep internal temperature within operating range. The fan will likely start when the AC circuit is activated to ensure proper operation.

## OPERATING INSTRUCTIONS

**CHARGING KTB5**

**⚠️ Only charge unit with provided AC wall charger, Klein Cat. No. 29201.**

**⚠️ Charge unit indoors.**

Connect the provided AC Wall Charger ⑭ to the AC Charger input ③, and allow KTB5 to fully charge prior to use, approx. 9 hours. When charging, the AC Charging Indicator LED ④ will be illuminated, and the LCD display will provide charge level ⑬, along with time until full ⑭. The unit is fully charged when the level is 100. It is recommended to fully charge KTB5 every 3 months to maintain the health of the battery pack.

**POWERING / CHARGING DEVICES WITH KTB5**

Select the type of outlet required by pressing the USB Output ON/OFF Button ⑤ or the AC Outlet ON/OFF Button ⑧. The outlet port will NOT function until the appropriate button is pressed to activate the port. When activated, the indicator on the button will illuminate green, indicating that the output(s) are active, and the LCD display will turn on and provide details on the charging output. Press the ON/OFF button(s) to shut down the output(s) when not in use. The LCD will automatically shut down when no outputs are activated.

KTB5 will enter sleep mode after 90 seconds of inactivity (no output load detected), and will "wake up" when inputting a charging cord or when any button is pressed.

**PASS-THROUGH CHARGING**

The advanced battery management system of the KTB5 allows it to charge a connected device while the wall charger unit is plugged into the KTB5. The KTB5 is capable of supporting more output than can be provided by the wall charger input. Therefore, the KTB5 may still be depleting battery capacity depending upon the load required by the connected device being charged.

**OVERLOAD CONDITION**

If the LCD displays the overload condition symbol ("OL"); do the following:

- Turn off USB ports ⑤ and AC outlets ⑧. The green indicator light will no longer be illuminated when the ports / outlets are turned off.
- Disconnect all devices, including the KTB5's charging cord.
- Verify the maximum power requirements for all devices, and confirm that the device power requirements do not exceed KTB5's capacity (see GENERAL SPECIFICATIONS).
- Reconnect *only* necessary devices.
- Turn on USB ports and/or AC outlets and resume operation.

If an overload condition occurs on the input port, the portable battery will automatically shut off the input port. The port will be reactivated when the input source meets the specification outlined in the GENERAL SPECIFICATIONS section. Only charge the unit with provided AC wall charger.

**KLEIN TOOLS ACCESSORY MOUNT ⑱**

To attach a Klein Tools accessory to KTB5, such as the AEPJS1 Wireless Jobsite Speaker, or 55437 Tradesman Pro™ Worklight, align the tabs on the accessory's mounting flange with the slots on KTB5's Accessory Mount, then insert and rotate clockwise to lock into place. To remove the accessory, rotate counterclockwise and pull out.

## TROUBLESHOOTING

### KTB5 WILL NOT CHARGE OR OPERATE CONNECTED DEVICES:

- Ensure that the output ports ⑥, ⑦, and/or ⑨ are activated by pressing the button ⑤ and/or ⑧ for the port(s) in use.
- Confirm the connected device is suitable for the KTB5 by reviewing the output specifications provided in the GENERAL SPECIFICATIONS section.
- Confirm the battery is charged by reviewing the charge level ①. This may need to be displayed by pressing the INFO ⑫ or LIGHT ⑪ button.
- Verify whether a warning icon ⑤, ⑥, ⑦, ⑧ is displayed on the LCD ②.

### KTB5 WILL NOT CHARGE:

- Verify that the AC Charger Input ③ is illuminated. If not, the AC charger being used may not be providing an output.
- Confirm that the charger's cord is inserted fully into the AC Charger Input.
- Confirm that the AC Wall Charger ⑭ is the charger provided with KTB5.
- If the input does not comply with the requirements located in the GENERAL SPECIFICATIONS section, the Low Input Voltage icon ⑨ may be displayed on LCD screen.

**NOTE:** The LCD display ② will provide additional fault codes that can be reviewed in the FEATURE DETAILS section.

## CLEANING

Be sure that KTB5 is disconnected from all input power sources and output devices. Use a clean, dry, soft-lint-free cloth to wipe down the unit. Remove any debris, dirt, or other blockages on both side vents. When cleaning debris from the side vents, do not allow the debris, dirt, or other blockages to enter the body of KTB5.

**Do not use abrasive cleaners or solvents.**

**Do not use compressed air to clean side cooling vents, as this will force foreign particles into the internal circuitry.**

**⚠ To avoid the risk of electrical shock, DO NOT use metal objects to clean ports.**

## MAINTENANCE

Recharge as needed. There are no pre-designated intervals at which to recharge as long as the KTB5 is being used regularly. Avoid discharging completely on a regular basis, as this can impact overall life.

Regularly inspect all ports and wall charger for any debris, dirt, damage and corrosion. **DO NOT** attempt to fix.

Regularly observe if the side vents are collecting dirt or dust, and clean following cleaning procedures noted in manual.

## STORAGE

If storing for more than 1 month, charge completely before storage and recharge approximately every 3 months to avoid full discharge and possible damage.

Store indoors, in cool temperatures, mild humidity, and away from direct sunlight (See GENERAL SPECIFICATIONS section). Leaving in a vehicle or other confined spaces in extreme hot temperatures can lead to decreased service life, overheating, and fire. Extreme cold conditions below specific storage range can also harm performance and service life.

Keep away from corrosion chemicals and gases

After taking out of storage, visually inspect to make sure KTB5 and all accessories look satisfactory. This increase review the intake and exhaust side vents to ensure they are clear of debris. Allow unit to return to ambient conditions before recharging, or charging other devices.

## WARRANTY

[www.kleintools.com/warranty](http://www.kleintools.com/warranty)

## DISPOSAL / RECYCLE



Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations. See [www.epa.gov](http://www.epa.gov) for additional information.

## CUSTOMER SERVICE

**KLEIN TOOLS, INC.**

450 Bond Street Lincolnshire, IL 60069  
1-877-553-4676

[customerservice@kleintools.com](mailto:customerservice@kleintools.com)  
[www.kleintools.com](http://www.kleintools.com)