

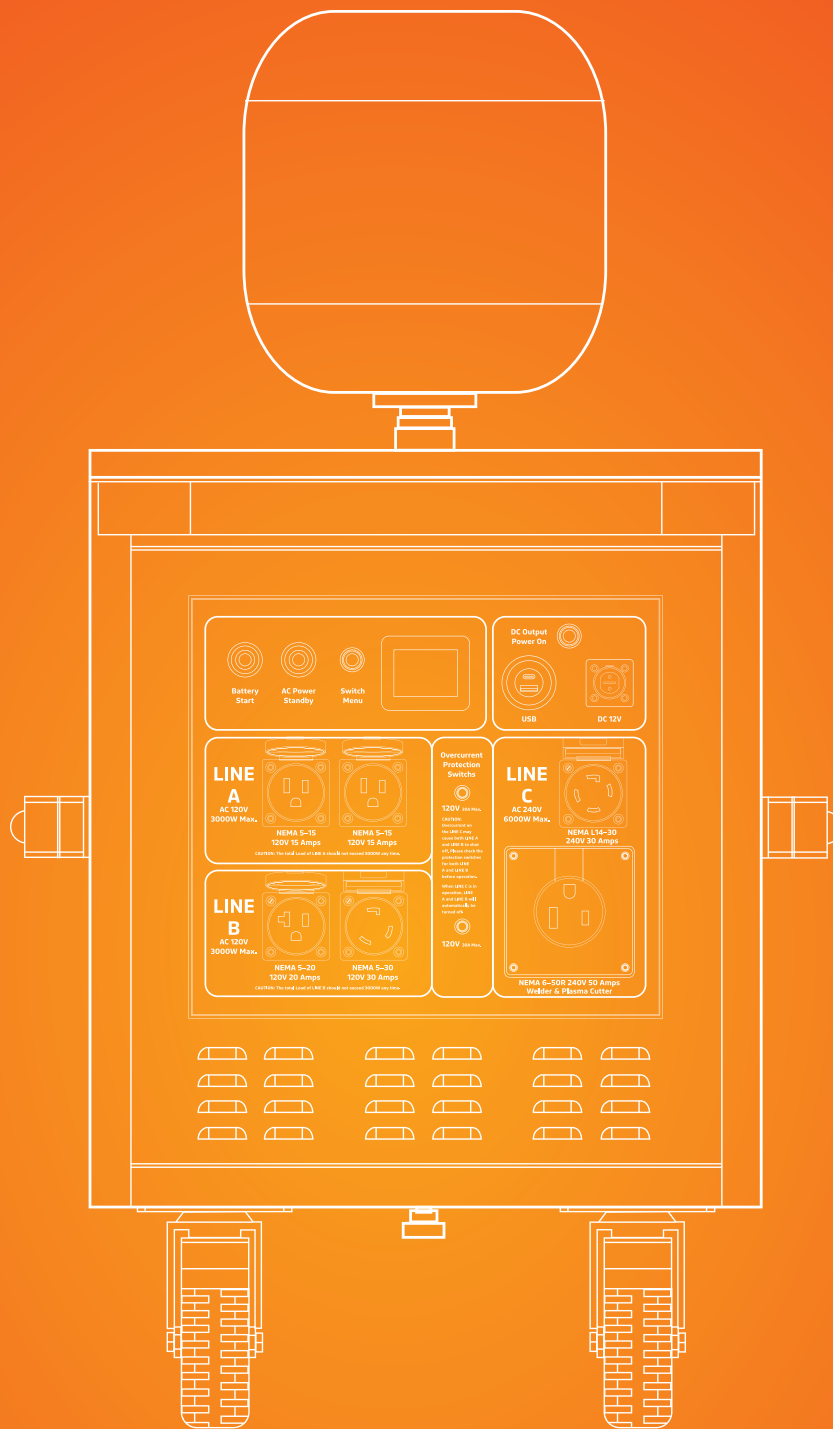


WALLE 6K

Portable Power and
Lighting Station

- Reliable Remote Lighting—No Excess Cabling Required
- Battery Charging and LED Power Requirements


Bright Mobile Energy



WALLE 6K

Protatable Power and Lighting Station

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01 Introduction

Thank you for purchasing the WALLE 6K Portable Power and Lighting Station

Introduction

Welcome to the WALLE 6K Portable Power and Lighting Station user guide. Whether you're at a construction site, a film production set, or a disaster relief site, the WALLE 6K Portable Power and Lighting Station is designed to meet your temporary power needs. This comprehensive guide will walk you through the operation, troubleshooting, best practices, and safety.

Best practices for safe operation of the WALLE 6K Portable Power and Lighting Station

1. Pre-deployment / Planning

- Assess the installation location for the WALLE 6K Portable Power and Lighting Station to ensure it is safe. The unit should not be placed near heat sources, exposed to combustible fumes, or subject to direct moisture.
- Identify the equipment that will be powered or charged by the WALLE 6K to ensure all devices operate within the station's power, current, and voltage limits.
- If needed, consult the equipment manufacturer for compatibility. For additional support, please call **510-891-1056**.

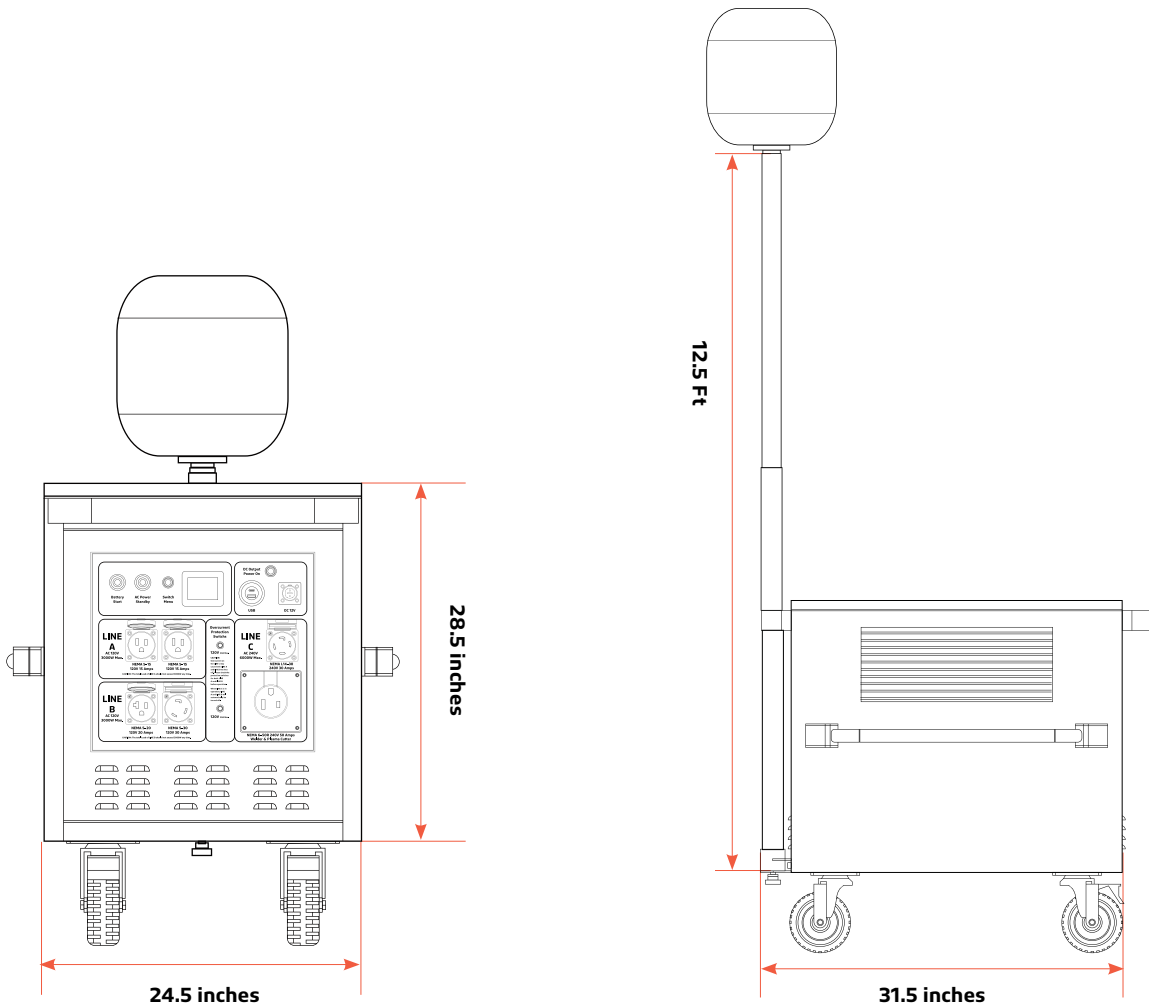
2. Operations

The WALLE 6K Portable Power and Lighting Station is rated IP54 and is designed for use in dry environments or conditions with light rain and low moisture.

Use in heavy rain, snow, or high-moisture environments may result in electric shock or electrocution and should be avoided.

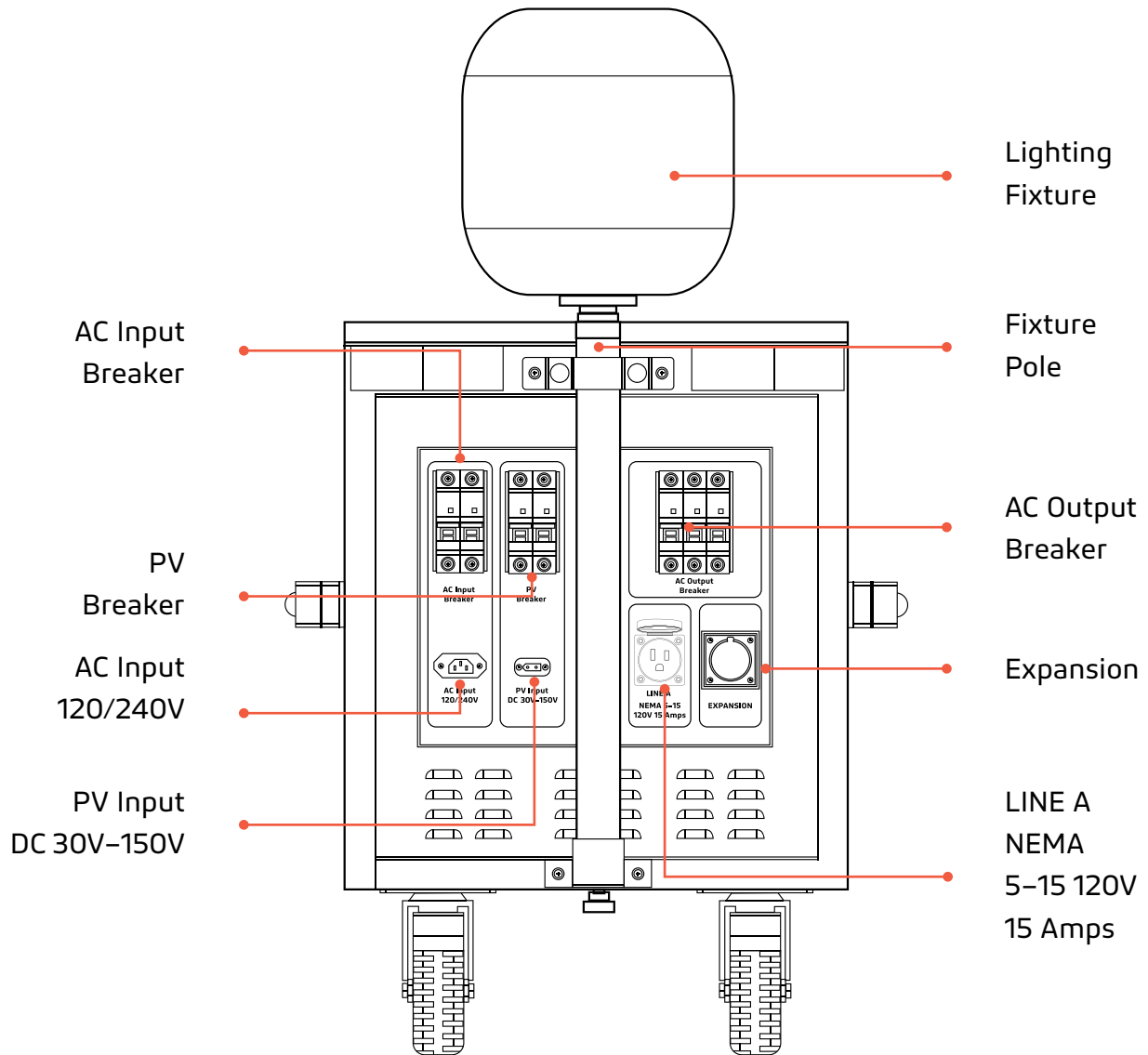
- Ensure the WALLE 6K Portable Power and Lighting Station is configured to operate within the manufacturer's recommended power parameters.
- Ensure all operators are familiar with safe procedures for connecting/disconnecting, powering on/off, transporting, and storing the unit.
- Before each use, inspect the WALLE 6K, including all connectors and cables, for any damage, defects, or potential safety hazards.
- Ensure the unit has adequate ventilation clearance, including around intake vents, and is positioned away from direct heat sources.
- Recharge the WALLE 6K at the end of each day or operational cycle.

Product Size



01 Introduction

Back



02 Specifications

GENERAL INFORMATION

**POWER FACTOR AT RATED POWER/
ADJUSTABLE DISPLACEMENT** 0.99 / 0.8 leading to 0.8 lagging

DIMENSIONS 31.5 X 28.5 X 24.5 IN

WEIGHT 251lb/114Kg

OPERATING TEMPERATURE -10°C/14°F to 55°C/131°F

NOISE EMISSIONS < 50 dB(A)

STANDBY CONSUMPTION < 20 W

COOLING METHOD Fan

INGRESS PROTECTION RATING IP54 (as per IEC 60529)

RELATIVE HUMIDITY 0~95%

MAX. OPERATING ALTITUDE 6562 ft power derating

PV INPUT (SOLAR PANEL SOLD SEPARATELY)

MAX. POWER 3,000W

MAX. VOLTAGE 150V

MPPT VOLTAGE RANGE 30V-150V

MIN. INPUT VOLTAGE 30V

FULL POWER VOLTAGE RANGE 110V-150V

NO. OF MPPT TRACKERS 1

MAX. INPUT PER MPPT TRACKER 30A

02 Specifications

BATTERY

BATTERY TYPE	Lithium Iron Phosphate (LiFePO ₄)
BATTERY VOLTAGE	42V-55V
MAX. CHARGING / DISCHARGING CURRENT	150A 200A
RATED CHARGING/ DISCHARGING CURRENT	100A 150A

AC OUTPUT

AC VOLTAGE	120 240V
VOLTAGE RANGE	117V-123V 234V-246V
RATED AC FREQUENCY	50Hz 60Hz
AC FREQUENCY RANGE	50±5Hz 60±5Hz
RATED POWER	6,000W(Max)
RATED OUTPUT	25A
MAX. OUTPUT	26A
HARMONICS THDI (@ NOMINAL <5% POWER)	<5%

DC OUTPUT

DC 12V OUTPUT	150W(Max)
USB-A OUTPUT	5V@3A 9V@2.5A 12V@2A
USB-C OUTPUT	5V@3A 9V@3A 12@3A 20V@3A

WORK LIGHT

LIGHT POWER	100W 180W 250W Selectable
RATED VOLTAGE	AC 100–277V

AC INPUT

RATED VOLTAGE	120 240V
RATED FREQUENCY	50Hz 60Hz
RATED ACTIVE POWER	2160W
RATED INPUT CURRENT	14A@120V 9A@240V
MAX. INPUT CURRENT	15A@120V 10A@240V
AC CORD LENGTH	8.2ft

02 Specifications

UPS FEATURE

OUTPUT VOLTAGE	120V
RATED OUTPUT FREQUENCY	50Hz/60Hz
RATED ACTIVE POWER	1,680W
PEAK ACTIVE OUTPUT POWER	1,800W
RATED CURRENT (@120V)	14.5 A
MAX. OUTPUT	15 A
MAX. SWITCHING TIME	≤10ms
OUTPUT THDI (@ LINEAR LOAD)	<2%

EFFICIENCY

MPPT EFFICIENCY	>99.5%
MAX. BATTERY TO LOAD EFFICIENCY	90%

SAFETY PROTECTION

DC ISOLATION	YES
PV REVERSE POLARITY PROTECTION	YES
AC OUTPUT OVER CURRENT PROTECTION	YES
AC OUTPUT SHORT CIRCUIT CURRENT PROTECTION	YES
AC OVER VOLTAGE PROTECTION	YES
PROTECTION CLASS	I
OVER VOLTAGE CATEGORY	AC: III; DC: II

03 Operations

01. Turning ON/OFF



[Back of Unit]



[Front of Unit]

1. Pull up the **"AC Output Breaker"** handle on the back of the unit. The red indicator light will illuminate, indicating that the AC output breaker is on.

CAUTION: The AC output of the WALLE 6K Portable Power and Lighting Station is divided into **LINE A, LINE B, and LINE C.**

The combined load on LINE A and LINE B must not exceed 3000W at any time. Exceeding this limit will cause the unit to shut down.

When LINE C is in operation, LINE A and LINE B will automatically turn off to prevent overcurrent and protect the equipment.

2. Press the **"Battery Start"** button on the front of the unit. The display screen will turn on, indicating that the battery is active.
3. Press the **"AC Output Standby"** button on the front of the unit. When the green indicator light illuminates, the WALLE 6K Portable Power and Lighting Station is ready for use.

Note: It may take up to seven seconds for the green light to turn on.

4. To power off the unit, press the **"Battery Start"** button again, then pull down the **"AC Output Breaker"** handle on the back of the unit.

03 Operations

02. Turn ON DC Output



[Back of Unit]

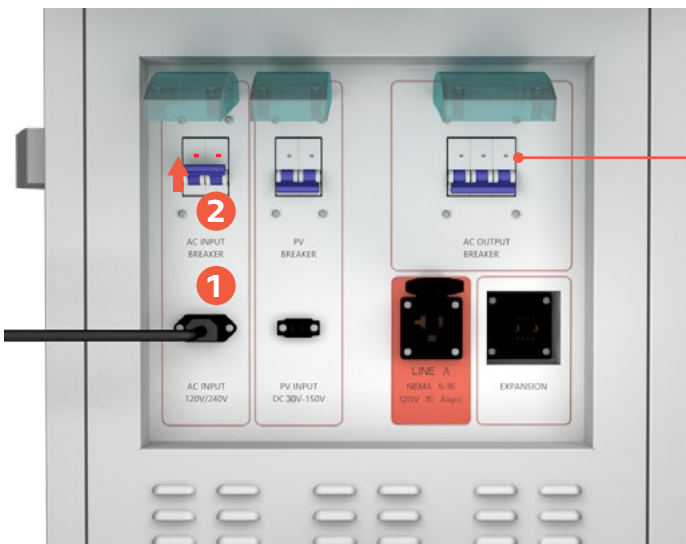


[Front of Unit]

1. Pull up the **"AC Output Breaker"** handle on the back of the unit. The red indicator light will illuminate, indicating that the AC output breaker is on.

2. Press the **"Battery Start"** button on the front of the unit. The display screen will turn on, indicating that the battery is active.
3. Press the **"DC Output Power On"** button on the front of the unit. When the green indicator light illuminates, the DC output is turned on.

03. Charge with AC Power



[Back of Unit]

1. Plug the **"AC Cord"** into the outlet labeled **"AC INPUT"** on the back of the unit.
2. Pull up the **"AC Input Breaker"** handle on the back of the unit. The red indicator light will illuminate, indicating that the AC input breaker is on.



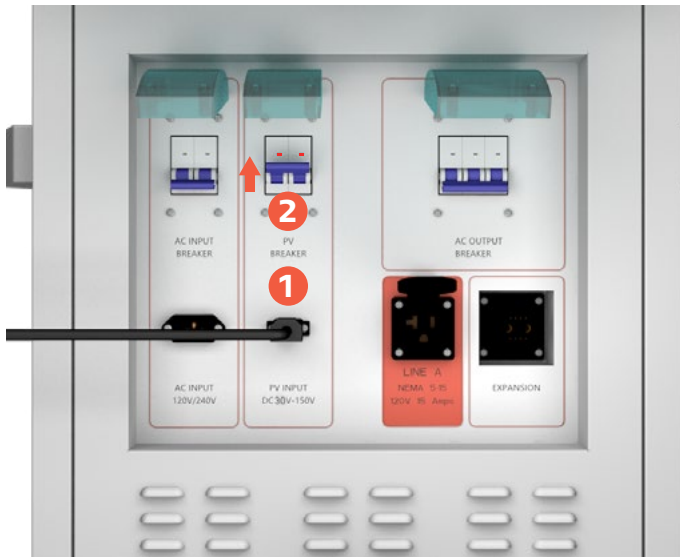
[Front of Unit]

3. Press the **"Battery Start"** button on the front of the unit. The display screen will turn on, indicating that the battery is active.
4. Charging is complete when the battery monitor displays full bars on the screen.

CAUTION: When charging the WALLE 6K Portable Power and Lighting Station, **ensure the "AC Output Breaker" handle on the back of the unit is in the down (OFF) position.**

03 Operations

04. Charge with PV Solar Panel



[Back of Unit]



[Front of Unit]

1. Plug the **"PV Solar Panel Cord"** into the outlet labeled **"PV INPUT"** on the back of the unit.
2. Pull up the **"PV Breaker"** handle on the back of the unit. The red indicator light will illuminate, indicating that the PV input breaker is on.

3. Press the **"Battery Start"** button on the front of the unit. The display screen will turn on, indicating that the battery is active.
4. Charging is complete when the battery monitor displays full bars on the screen.

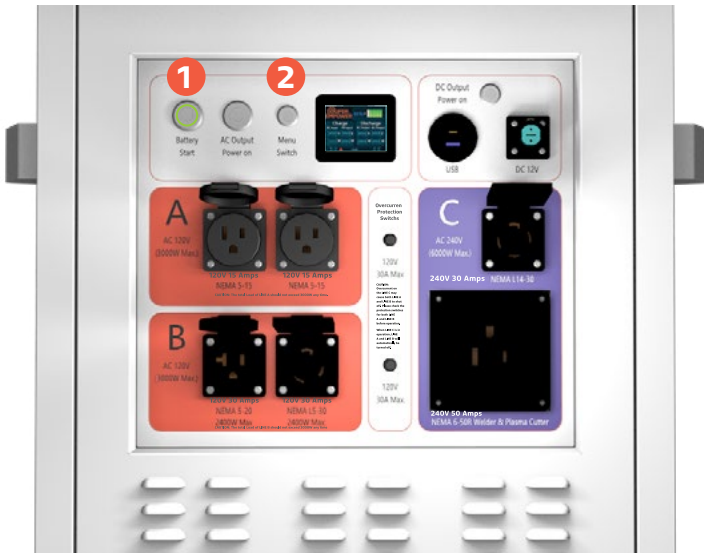
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When LINE C is in operation, LINE A and LINE B will automatically turn off to prevent overcurrent and protect the equipment.

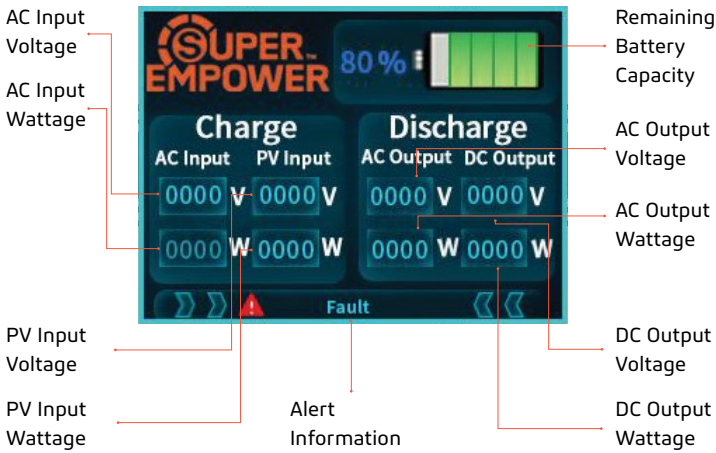
05. Check System Status



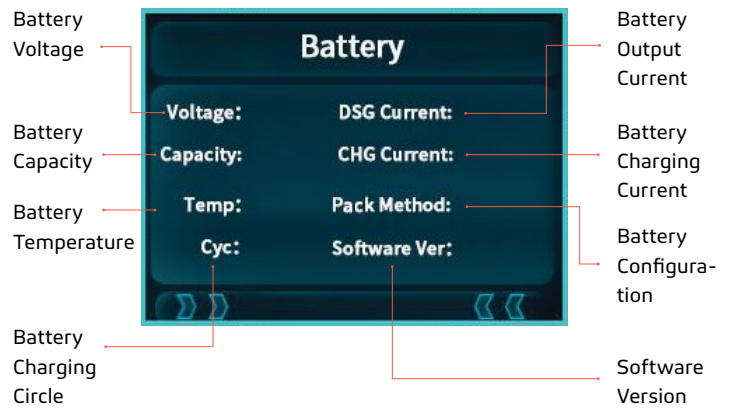
[Front of Unit]

1. Press the **"Battery Start"** button on the front of the unit. The display screen will turn on.
2. Press the **"Switch Menu"** button on the front of the unit to cycle through the display data on the screen.

Screen information Introduction—WALLE 6K



[Page 01]



[Page 02]



[Page 03]

03 Operations

06. Connect Multiple Battery Packs (Battery Packs Sold Separately)



1. Use the **"Battery Extension Cable"** to connect the battery pack to the **"EXPANSION"** port at the back of the unit.



**6 Battery
Packs Max.**
.....



CAUTION: The AC output of the WALLE 6K Portable Power and Lighting Station is divided into **LINE A, LINE B, and LINE C.**

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When LINE C is in operation, LINE A and LINE B will automatically turn off to prevent overcurrent and protect the equipment.

04 Troubleshooting Q&A

1. Initial Troubleshooting Procedure:

- Ensure the **"AC Output Breaker"** on the back of the unit is in the **ON position**.
- **Perform a power cycle:**
 - Press the **"Battery Start"** button to turn the WALLE 6K off.
 - Wait **10 seconds**.
 - Press the **"Battery Start"** button again to turn the unit **ON**.
 - Press the **"AC Power Standby"** button and wait for the **"green indicator light"** to illuminate.

2. No Power at Output Receptacles:

- Complete **step 1**.

3. Green Indicator Light Does Not Illuminate:

- Complete **Step 1**, then check for power at the output receptacle.
- Ensure the **"AC Output Breaker"** is in the **ON** position.

4. Unit Is Not Charging (AC):

- Ensure the **"AC Output Breaker"** is in the **OFF** position.
- Ensure the **"AC Input Breaker"** is in the **ON** position.
- Press the **"Battery Start"** button to turn on the display screen.

5. PV Panel Is Not Charging:

- Ensure the **"AC Output Breaker"** is in the **OFF** position.
- Ensure the **"PV Input Breaker"** is in the **ON** position.
- Press the **"Battery Start"** button to turn on the display screen.

04 Troubleshooting Q&A

WALLE 6K Portable Power and Lighting Station—Safety Q&A

1. How do I know if the battery is overloaded?

When an overload occurs, the **"Overcurrent Protection Switches"** will trip, and the WALLE 6K Portable Power and Lighting Station will automatically shut down.

2. How do I recover from a battery overload?

- Turn off all equipment connected to the unit.
- Restart the WALLE 6K Portable Power and Lighting Station.
- Reset the **"Overcurrent Protection Switches"** by pressing them back in.
- Check that the battery has sufficient charge.
- Reconnect and power on equipment **one at a time**, ensuring no further overload occurs.
- Resume normal operation once all loads are connected without triggering an overload.

3. What should I do in case of overheating or fire?

If it is safe to do so:

- Turn off any connected equipment.
- Remove combustible materials from the surrounding area.
- Power off the WALLE 6K Portable Power and Lighting Station.

Do NOT attempt to extinguish the fire if it puts you at risk. Evacuate personnel from the area immediately.

4. How do I safely connect to grid power?

The WALLE 6K Portable Power and Lighting Station is designed for safe and easy grid charging using the designated **charging ports**.

Do NOT connect grid power or any other power source to the **AC output connectors**. This may permanently damage the unit and could result in **electric shock or injury**.

05 Warranty

WALLE 6K Portable Power and Lighting Station is covered by a 1 year limited warranty. To obtain warranty service please contact your local distributor or sales rep for further instruction.



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www.super-empower.com

SOLTECH LLC reserves the right to update all product data sheets at any time. Consult SOLTECH marketing specialists for publication updates at hello@soltechlighting.com

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"WE EMPOWER WATT MATTERS"