

## Battery Packs

SKA-100

SKD-200-1

SKA-300

SKA-500 36Ah

SKA-500 49.5Ah

SKA-1000



# LI-ION

BATTERY  
PACKS



## INTRODUCTION:

Lithium-ion (li-ion) batteries have been used commercially for over 20 years in various applications. Why then have they not been commonly adopted as batteries for single-phase UPSs? The answer lies in the fact that, like all other applications, li-ion cells weren't available that provided UPS vendors with the right balance of price, energy density, power, safety, and reliability for single-phase UPS applications.

However, advancements in li-ion chemistries and technologies over the last 10 years have provided UPS vendors with realistic options. These advancements have largely been due to requirements set forth by the electric vehicle industry.

## ADVANTAGES of Li-Ion Battery UPSs among VRLA (valve regulated lead-acid)

- Fewer battery replacements (perhaps none) required over the life of the UPS eliminates the risk of downtime posed by battery replacement
- About three times less weight for the same amount of energy
- Up to ten times more discharge cycles depending on chemistry, technology, temperature, and depth of discharge
- About four times less self-discharge (i.e. slow discharge of a battery while not in use)
- Four or more times faster charging, key in multiple outage scenarios

However, li-ion batteries also have two main drawbacks compared to VRLA:

- Higher capital expenditure (capex) for the same amount of energy due to higher manufacturing cost and cost of required battery management system
- Stricter transportation regulations



More life time

Less maintenance cost (almost 0)

Volume effective

Faster charging

Less self-discharge

Less weight

Product Code	Power	Capacity	Voltage
SKA-100	100 Wh	27.000 mAh	3.7 V
SKA-300	340 Wh	31.200 mAh	11.1 V
SKA-500-36	530 Wh	36.000 mAh	14.8 V
SKA-500-49.5	730 Wh	49.500 mAh	14.8 V
SKA-1000	1000 Wh	39000 mAh	25.9 V



**In any field of your life**

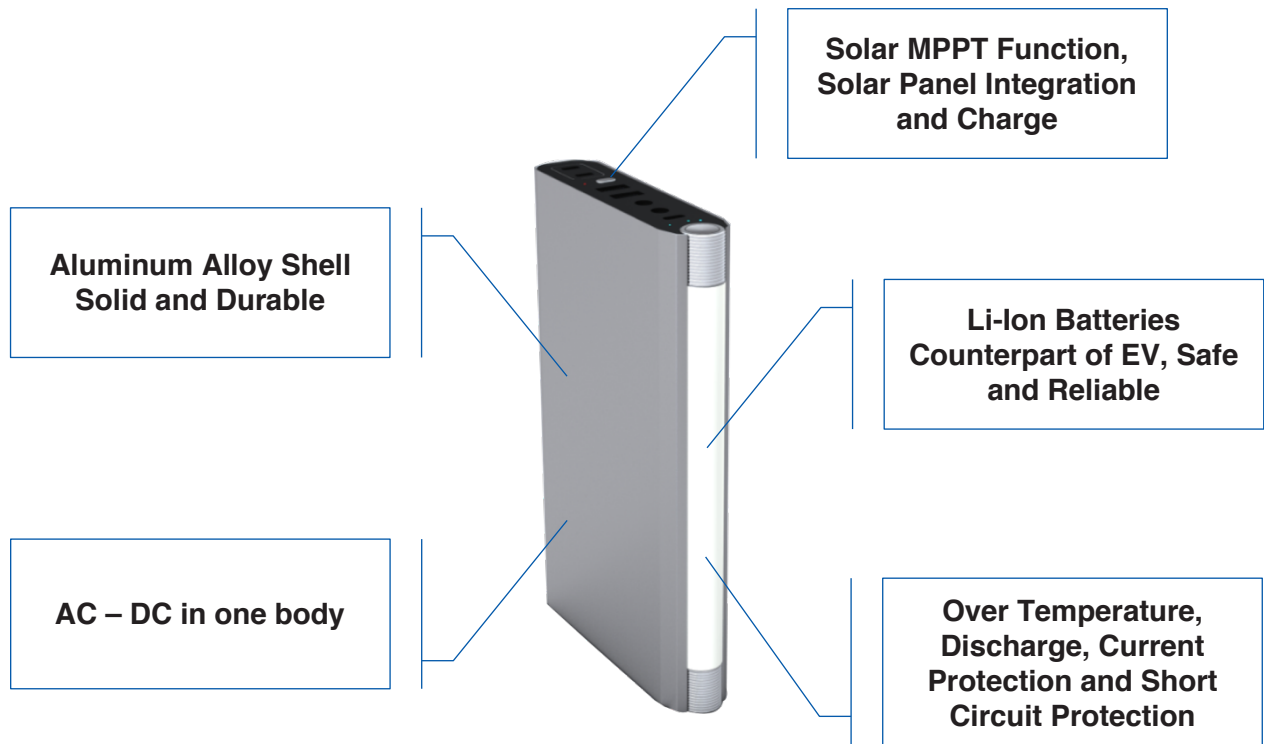
**Do not be power off!**

Appliances	Power Consumption	Duration with SKA-1000
49" LED TV	85W	12 hours
Laptop Computer	75W	13.5 hours
LED Lighting Bulb	7W	144 hours
Vantilator	50W	20 hours
House Internet Router	5W	200 hours
Home Air Conditioner	1000W	1 hour
Fridge	150W	6.5 hours



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## SKA-100



- **Input voltage / current (DC, Type-C, solar panel):**

Adapter: 15Vdc ~ 30Vdc 3A (MAX)

Adapter: TYPE-C/45W (supports PD3.0/PD2.0 input)

Solar panel: 15Vdc ~ 30Vdc 3A (MAX)

- **Output voltage and current:**

USB output voltage / current: 5Vdc 2.1A

DC output voltage / current: 12Vdc 8.0A (MAX)

Type-C output power: TYPE-C/45W (PD3.0/PD2.0/QC3.0/QC2.0/FCP/SCP, etc.)

- **AC output:**

AC output power: **100Wh**

AC output voltage / current: 220V/0.46A/50Hz 110V/0.9A/60Hz

Product capacity: **11.1V 9.0Ah/3.7V 27000mah**

Product size: 210mm × 135mm × 30mm

Net weight: 1.0Kg

Battery life: **≥ 800 times (capacity ≥ 80%)**

Working environment temperature: -10 ° C ~ 60 ° C

Working environment humidity: ≤ 95%

Altitude: below 2000m

## SKD-200-1



Battery type: 18650 batteries

Input voltage: DC 12V, 19V, 23V

Input current: 4.0A (MAX)

USB1 output: 5V 2.1A

USB2 output: 5V 2A, 9V 2A, 12V 1.5A

DC output: 12V 4A, 17.5V 4A, 19V 3.5A

Battery capacity: **52000mAh**

Static power consumption:  $\leq 200\mu\text{A}$

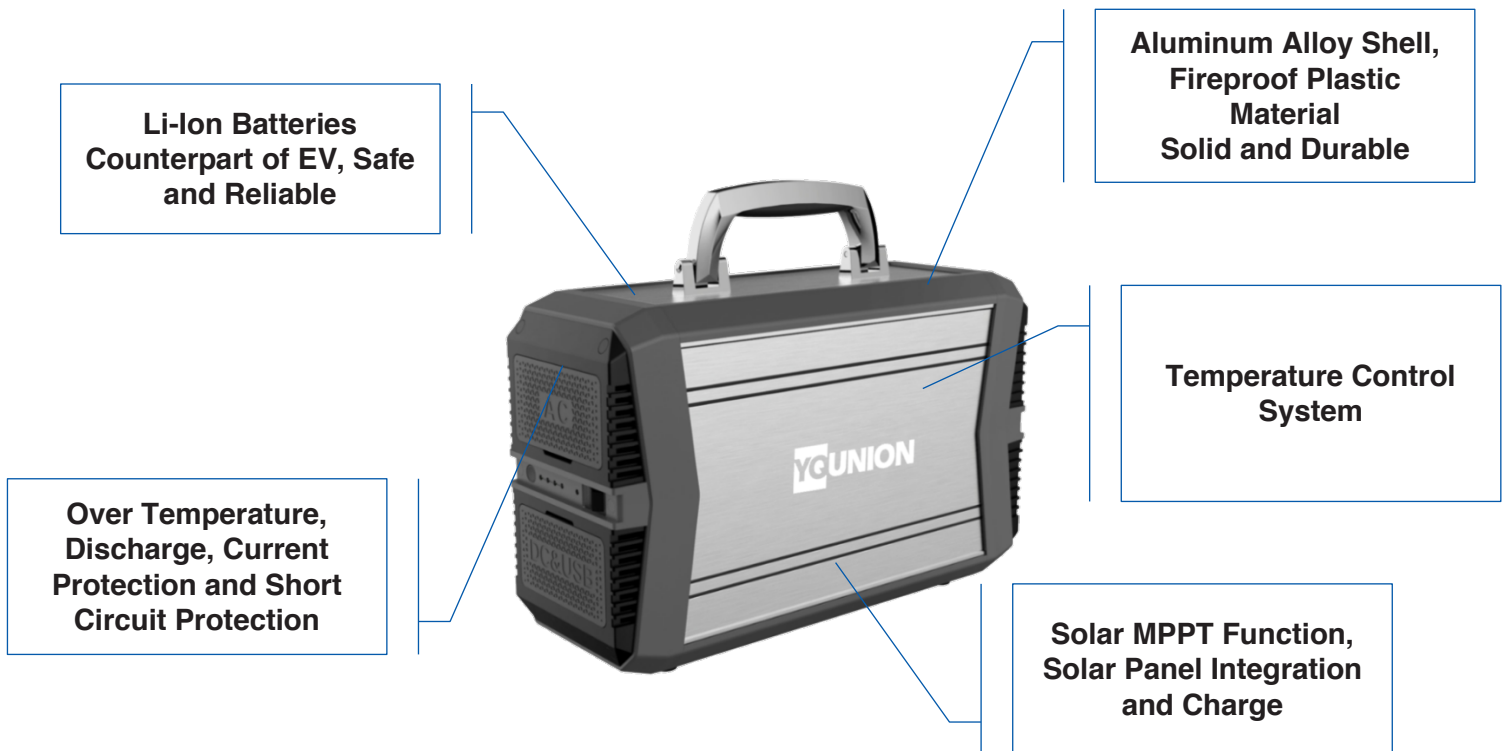
Cycle life: 800 battery cycles (capacity  $\geq 80\%$ )

Working temperature:  $-10^{\circ}\text{C} \sim 65^{\circ}\text{C}$  Volume: 215×125×38mm

Product weight: **1.5 kg**

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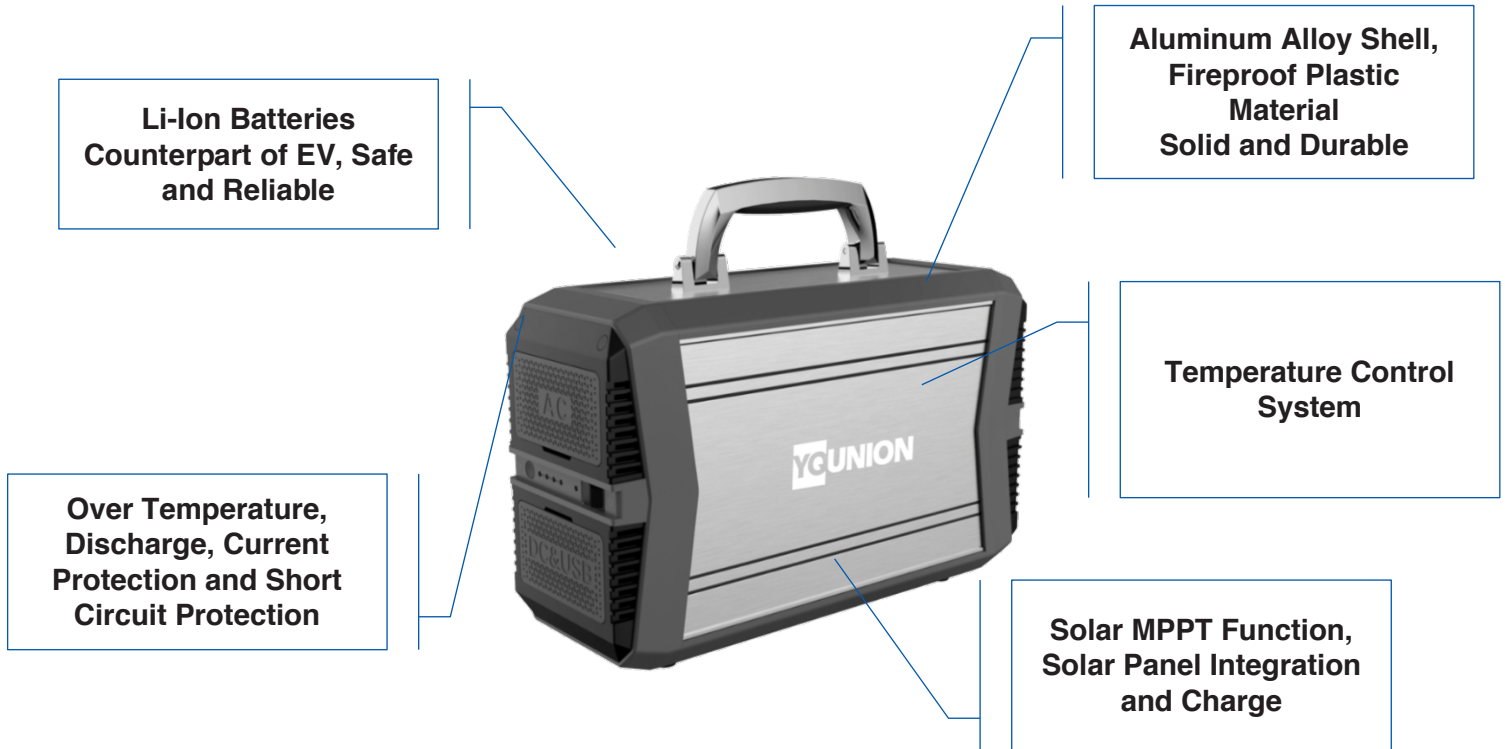
## SKA-500-36Ah



Battery type: 18650 batteries  
USB1 output: 5V/3A  
USB2 output: 5V-3A/ 9V-2A/ 12V-1.5A  
DC1--DC4 output: 12V/8A (MAX)  
DC5 output: 19V-3.5A (MAX)  
AC output: 220V/500W/50Hz, 210V/500W/60Hz  
Input voltage: 18.5V-30V  
Input current: 10A (MAX)  
Battery capacity: **14.8V 36Ah**  
Charging time: **5.5-7 hours**  
Static power consumption:  $\leq 200\mu\text{A}$   
Cycle life:  **$\geq 800$  times**  
Working temperature:  $-10^{\circ}\text{C}$ --- $65^{\circ}\text{C}$   
Volume: 381\*128\*243\*MM  
Weight: **7.5 kg**

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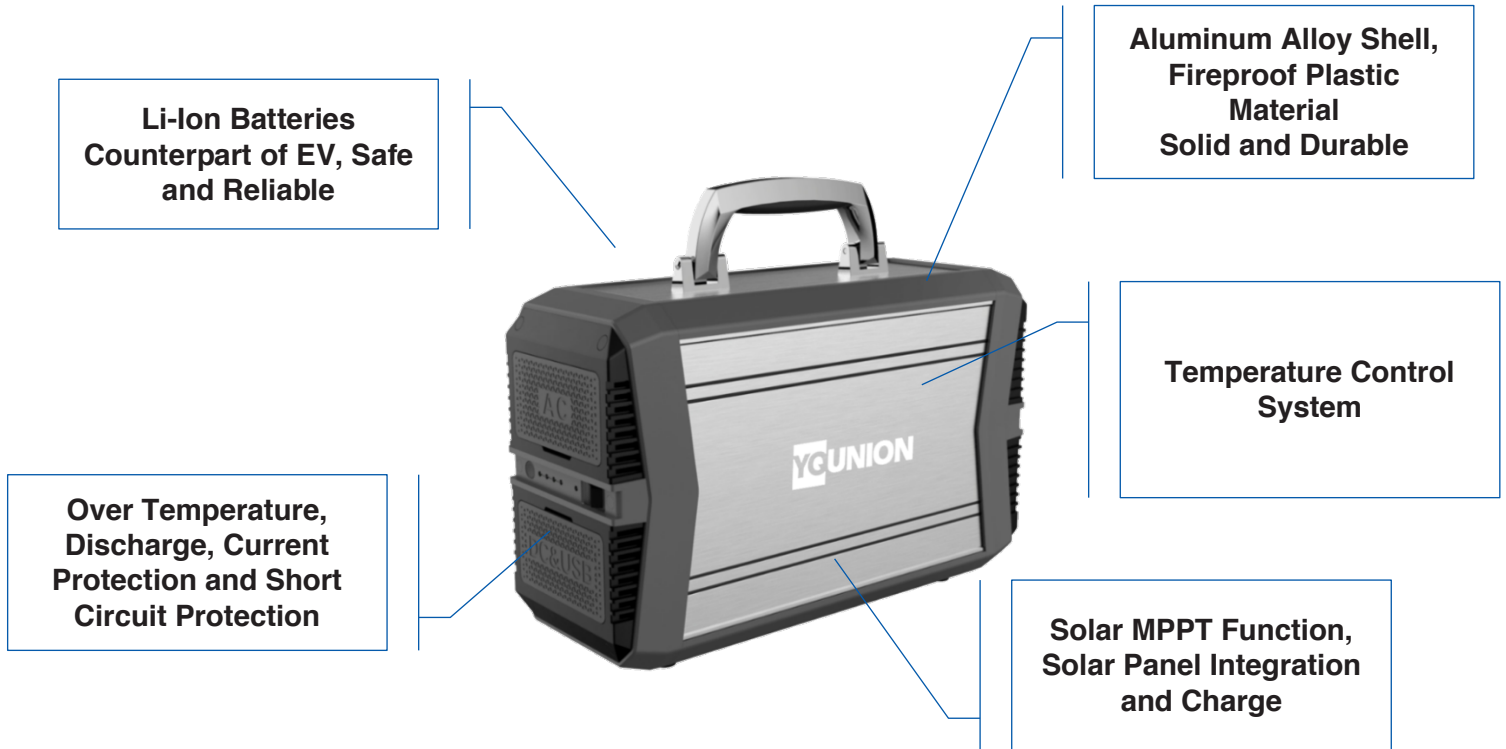
## SKA-500-49.5Ah



Battery type: 18650 batteries  
USB1 output: 5V/3A  
USB2 output: 5V-3A/ 9V-2A/ 12V-1.5A  
DC1--DC4 output: 12V/8A (MAX)  
DC5 output: 19V-3.5A (MAX)  
AC output: 220V/500W/50Hz, 110V/500W/60Hz  
Input voltage: 18.5V-30V  
Input current: 10A (MAX)  
Battery capacity: **14.8V 49.5Ah**  
Charging time: **6.5-8 hours**  
Static power consumption:  $\leq 200\mu\text{A}$   
Cycle life:  **$\geq 500$  times**  
Working temperature:  $-10^{\circ}\text{C}$ --- $65^{\circ}\text{C}$   
Volume: 381\*128\*243MM  
Weight: **7.9 kg**

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## SKA-300

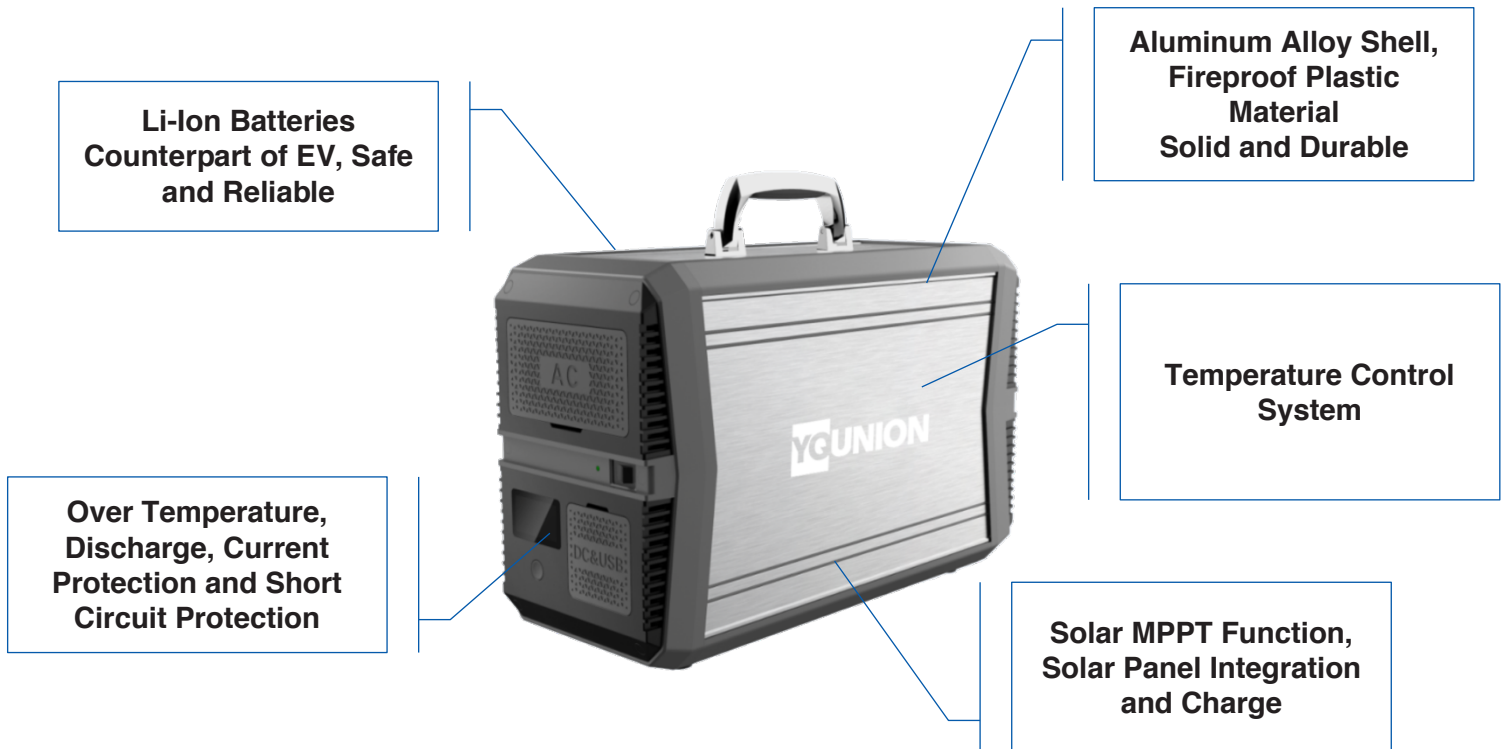


Battery type: 18650 batteries  
USB1 output: 5V/3A  
DC output: 12V/8A (MAX)  
AC output: 220V/300W/50Hz, 110V/300W/60Hz  
Input voltage: 15V-30V  
Input current: 5A (MAX)  
Battery capacity: **11.1V 31.2Ah**  
Charging time: **5.5-7 hours**  
Static power consumption:  $\leq 200\mu\text{A}$   
Cycle life:  **$\geq 800$  times (capacity  $\geq 80\%$ )**  
Working temperature:  $-10^{\circ}\text{C}$ --- $65^{\circ}\text{C}$   
Volume: 300\*117\*208MM  
Weight: **5.0 kg**

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## SKA-1000



Battery type: 18650  
USB1 output: 5V/3A  
DC output: 12V/8A (MAX)  
AC output: 220V/1000W/50Hz, 110V/1000W/60Hz  
Input voltage: 32V-45V  
Input current: 8.0A (MAX)  
Battery capacity: **25.9V 39Ah**  
Charging time: **5.5-7 hours**  
Static power consumption:  $\leq 200\mu\text{A}$   
Cycle life:  **$\geq 800$  times (capacity  $\geq 80\%$ )**  
Working temperature:  $-10^{\circ}\text{C}$ --- $65^{\circ}\text{C}$   
Volume: 408\*163\*256MM  
Weight: **11.5 kg**

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