



# BLUETTI SolarX 4K

Solar Charge Controller

The SolarX 4K is the world's first 4,000 W solar charge controller, designed to safely convert high-voltage input (150 V-500 V) into stable, low-voltage output under 60 V. It provides fast, reliable charging for power stations and battery packs—perfect for DIY solar setups, home backup, and off-grid use.



## Power Your Way with SolarX 4K

Whether powering a cabin, planning for outages, or living off-grid, SolarX 4K maximizes your solar potential. Easily connect to rooftop panels with AC coupling, empowering DIYers to take full control of their energy.

**Note:**

30 kW solar input requires connection to the ATI Smart Distribution Panel (US only).

## Compatibility

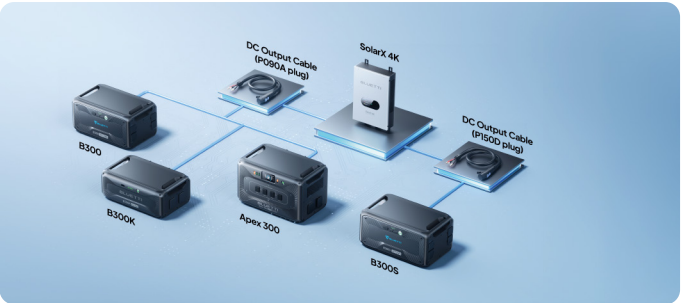
**Power Stations:** Apex 300, AC300, AC500

**Battery Packs:** B300K, B300, B300S (supports single-pack charging)

**RV Batteries:** B4810, B1210, B1232

**Notes:**

- AC300 and AC500 require compatible expansion batteries to operate.
- B1210 and B1232 require four units connected in series for 48 V operation.



**DC Output Cable (with P090A plug)**  
Apex 300/B300/B300K

**DC Output Cable (with XT60-F connectors)**  
Apex 300

**DC Output Cable (with P150D plug)**  
B300S

**DC Output Cable (with CB22-8 terminal)**  
B4810/4 × B1210/4 × B1232

## PV Input

Max. Input Power	4,200 W
Open-circuit Voltage	500 VDC
Startup Voltage	150 VDC
MPPT Operating Voltage	120 VDC to 450 VDC
No. of MPPT	1
Max. Input Current	13 A
Max. Short Circuit Current	17 A

## DC Output

Output Power	4,000 W
Max. Output Voltage	58 V
Min. Output Voltage	35 V
Max. Output Current	80 A
COM Interface	RJ45

## General

MPPT Efficiency	Max. 99%
Connectivity	CAN 2.0/Bluetooth/Wi-Fi
Overtemperature Protection	55°C/131°F
Operating Temperature	-20°C to 55°C/-4°F to 131°F Power output decreases above 45°C (113°F)
Storage Temperature	-20°C to 55°C/-4°F to 131°F
Operating Humidity	10% to 90% RH
Operating Altitude	≤ 2,000 m/6,562 ft
Noise Level	52 dB
Cooling Method	Air Cooling
Protection Grade	IP21
Net Weight	About 7.6 kg/16.8 lbs
Dimensions (L × W × H)	288.4 × 474.0 × 90.2 mm/11.35 × 18.66 × 3.55 in
Warranty	2 Years



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