



PowerNest R2

4.5 kWh

The world's first HESS based on sodium-ion batteries, CE certified



Ultimate Safety

Ensured by the inherent safety of sodium-ion batteries.



Extremely Low Temperature

Operates efficiently at temperatures as low as -30°C .



Eco-Friendly

Significantly reduces the exploitation of natural resources.

Biwatt Power - Green Future

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 BIWATT

Website

Battery R2 (PNR-4.5-02), Stacked, Sodium-ion



Outdoor Rack, IP65



Indoor Easy Rack



Indoor Rack



Wall Bracket

Performances	Battery type		Sodium-ion battery
	Capacity		4.5 kWh
	Cycle life (25±2°C, 0.5C/0.5C, 80%DoD)		5,000
	Charge and discharge current	Maximum continuous charge current	100 A
		Maximum continuous discharge current	100 A
	Rated voltage		45 V
	Operating voltage		33 V ~ 59.5 V
	Display		SOC: 17% ~ 100%, LED
Communication	Communication port		RS485 / CAN
General parameters	Dimension (W x H x D)		594 x 155 x 525 mm (23.4 x 6.1 x 20.7 in)
	Weight		54.5 kg (120.2 lb)
	Recommended depth of discharge		90%
	Installation		Floor stand
	Working temperature		Charge: -20°C ~ +55°C (-4°F ~ 131°F) Discharge: -30°C ~ +55°C (-22°F ~ 131°F)
	Storage temperature		0°C ~ +35°C (32°F ~ 95°F)
	Max. operating altitude		≤4,000 m (13,123 ft.)
	Installation environment		Indoor / Outdoor
	Operating humidity		5% RH ~ 95% RH
	Cooling mode		Natural convection
Certification	IP rating of enclosure		IP20
	CE		EN IEC 61000-6, EN 62619