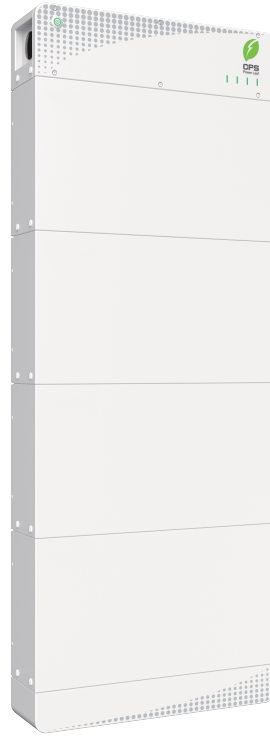


CPS 5-20 kWh Battery for North America



CPS ESSR-05-20KL1/US Battery

CPS is excited to introduce the 5-20 kWh modular batteries for use with CPS single-phase hybrid inverters to the North American market. The Power Leaf solution is scalable from 7.6 kW/5 kWh to 12 kW/20 kWh with up to four stackable battery units when connected to the CPS single-phase hybrid inverters.

The 5-20 kWh batteries are UL9540 certified with the CPS 7.6-12 kW single-phase hybrid inverters as a complete energy storage system (ESS).

Key Features

- Fully integrated turnkey ESS solution when used with CPS single-phase hybrid inverters
- LFP batteries with high thermal stability and high energy density
- Parallel up to 60 kWh of energy storage with no junction boxes required
- Maximum up to 180 kWh by using multiple energy storages in parallel
- UL9540A tested
- 200 A AC passthrough
- Stackable batteries for simple installation and O&M
- UL 9540 certified with CPS 7.6-12 kW hybrid inverters
- Expandable capacity for small commercial applications

CPS ESSR-05-20KL1/US Battery Data

Product Model	CPS ESSR-05KL1/US	CPS ESSR-10KL1/US	CPS ESSR-15KL1/US	CPS ESSR-20KL1/US
General Data				
Nominal voltage	51.2 V			
Operating voltage range	44.8-57.6 V			
Max. current	50 A	100 A	150 A	200 A
Max. power	2.5 kW	5 kW	7.5 kW	10 kW
Rated energy	5 kWh	10 kWh	15 kWh	20 kWh
Usable energy	5 kWh	10 kWh	15 kWh	20 kWh
Depth of discharge	Up to 100%			
C-Rate	0.5			
Max. charge/discharge power	2.5 kW	5 kW	7.5 kW	10 kW
Discharging temperature range	14°F to 122°F (-10°C to 50°C)			
Charging temperature range	32°F to 122°F (0°C to 50°C)			
Recommended storage temperature	68°F to 86°F (20°C to 30°C)			
Operating humidity range	5-95%			
Interface and display	LED and mobile app (with CPS single-phase hybrid inverters)			
Communication	CAN (with CPS single-phase hybrid inverters)			
Installation Specifications				
Max. parallel extensions	Up to 60 kWh			
Weight ¹	132.3 lb (60 kg)	229.3 lb (104 kg)	326.3 lb (148 kg)	423.3 lb (192 kg)
Dimensions (W × D × H) ¹	26.4 × 7.1 × 25.6 in (670 × 180.3 × 650 mm)	26.4 × 7.1 × 40.2 in (670 × 180.3 × 1020 mm)	26.4 × 7.1 × 54.7 in (670 × 180.3 × 1390 mm)	26.4 × 7.1 × 69.3 in (670 × 180.3 × 1760 mm)
Operating altitude	9842 ft / 3000 m			
Installation method	Floor- or wall-mounted			
Cooling method	Natural convection			
Protection	NEMA 3R / IP65			
Black start mode	Yes			
Standard Compliance				
Certificates	UN 38.3, UL 1973, UL 9540, UL 9540A, UL 60730, FCC Part 15			
Warranty				
Standard	10 years			

1) Weight and dimensions include battery module, control module, and base.