

Mobile Energy Storage System

HPESS 17590-DC



*(The picture is for reference only. The final design shall be subject to the structural design after order approval)

Integrated & Versatile

The robust & mobile all-in-one solution allows for quick deployment at site. The DC-integrated charger reduces energy conversion losses. The Power Unit can be easily handled, for example, by a crane, forklift, or wheel loader. Multiple AC outlets provide power to additional equipment.

Off-Grid Mode

Our mobile energy storage system supports off-grid operation, delivering stable and continuous power without relying on the utility grid. With built-in inverter and battery management functions, it can independently supply electricity to equipment at remote sites, emergency locations, or areas with unstable grid access.

PRODUCT INFO

Max energy	175 kWh
Power output(DC)	90 kW
Power input(AC)	80 kW
Dimension	~2100x1440x1580 mm
Weight	~2440 kg

DC Input

Our mobile energy storage system supports DC charging via CCS2, allowing rapid and efficient energy input from standard fast-charging infrastructure. This ensures high-power, low-loss charging and makes the system compatible with widely used European DC charging networks.

DC Charge Gun

Equipped with a 90 kW CCS2 DC fast-charging gun, enabling rapid and reliable EV charging directly from the battery unit. Delivering high-efficiency DC power for electric vehicles in construction sites, events, logistics yards, or remote locations without fixed grid access.

Combine Tech

The HPESS is designed for safety, environmental care, quality, trust, and support over time.



Technical Data

Electrical input/output

HPESS 17590

AC Input	
Nominal Power	80kW
Socket Type (MENNEKES)	125A 400 V (3-phase, 50 Hz), CEE connector
AC Output	
Nominal Power	90kW
Socket Type (MENNEKES)	125A CEE 3-ph, 63A CEE 3-ph, 32A CEE 3-ph, 16A CEE 3-ph, 16A 1-ph Schuko
DC Input	
Type	CCS2
Nominal Power	90kW
Max Input Current	150A
DC Output	
Type	Phoenix-CCS2 Charging Gun(5 meters)
Nominal Power	90kW
Max Output Current	150A

Battery

Nominal energy	175 kWh
Cell chemistry	LiFePO4
Expected lifetime	> 3 years (for up to two cycles per day)
Certification	UN 38.3, IEC 62619
Cooling	Air Cooling

General

Configuration	All-in-one
BESS modes	Off-grid
Operating temperature range	-20°C to +50°C
Altitude	< 2000 m
Humidity	5% - 95%
Enclosure protection rating	IP 54
Compliance	CE, IEC 62619
Heating Film	Yes
Protection	Over-load, Over-heat, Short Circuit, Over-current, Over-voltage etc.
Fire System	Perfluorohexanone

Digital

Connectivity	4G SIM card
Local	HMI
Remote monitoring	Web & App

Price Term

FOB Price	--
Production Lead Time	58-70 Days after order approved
Payment Term	50% advanced payment upon order confirmation 50% balance before shipment after production is completed
Price validity	20 days from the date of quotation