

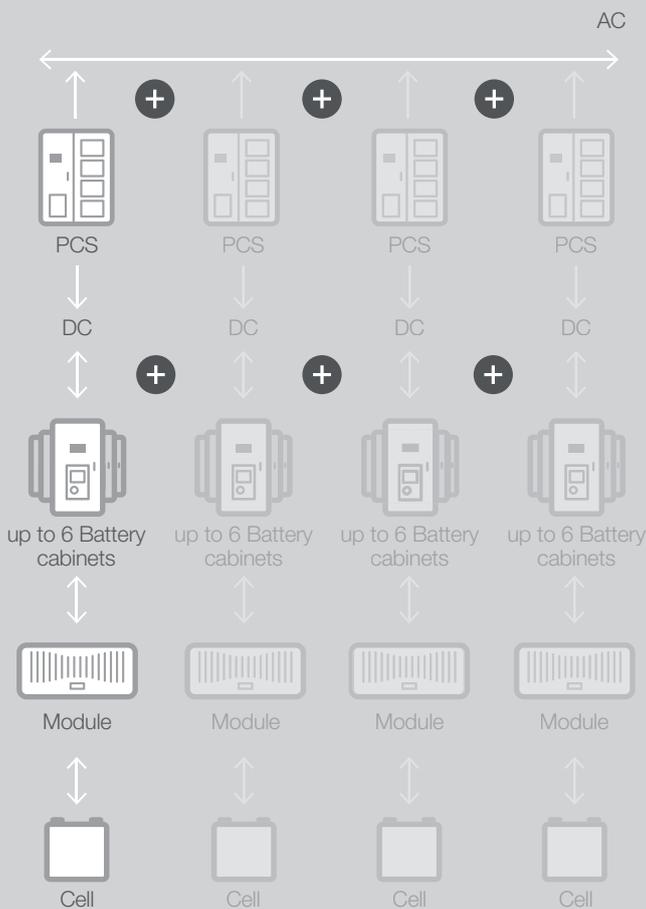
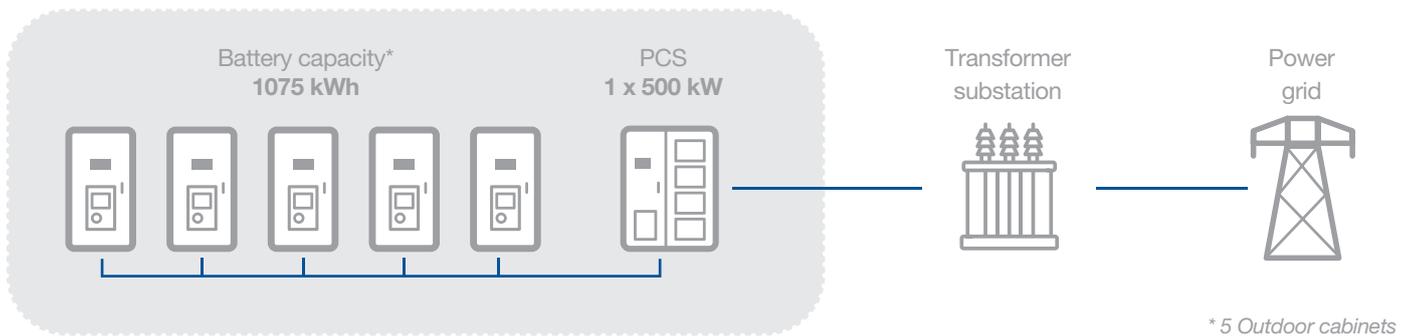
PACCAR POWER SOLUTIONS

Battery Energy Storage System

from 62.5 - 500+ kW

from 215 - 1.290+ kWh

Configuration



System overview

Type of Battery	LFP (tier 1)
Rated Capacity	from 215 - 1.290+ kWh
Rated PCS power	from 62.5 - 500+ KW
Enclosure	1x PCS per 1 to 6 Battery Cabinets
DC Voltage Range	600 - 900 V
Depth of Discharge	80%
System Efficiency	Max. 93%
Ambient Temperature	Between -10 °C and 45 °C
Relative Humidity	5% - 95%
Altitude	<2000 m
Protection Level	IP54
Cooling Method	Internal Air Conditioning
Fire Suppression Agent	Stat-X 100T
Communication Method	API or Modbus RS485
Conformity	CE, IEC 62619, PGS 37-1, EN 50549-1, EN 50549-2

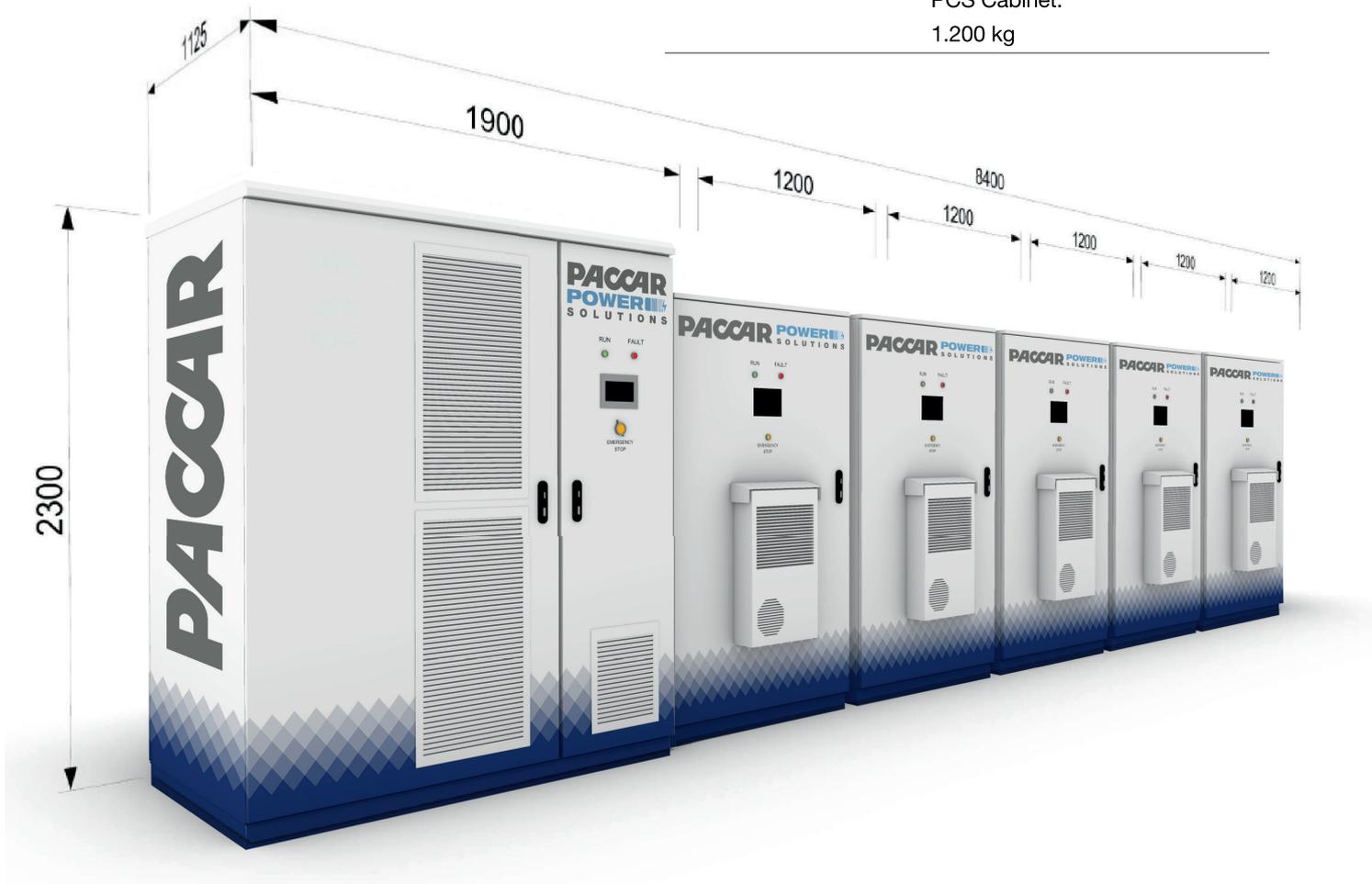
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Battery Energy Storage System

Dimensions

Item	Parameters
Dimensions	Battery Cabinet: 1.200 x 863 x 2.085 mm x 5
	PCS Cabinet: 1.900 x 1.125 x 2.300 mm
Weight	Battery Cabinet: 1.900 kg x 5
	PCS Cabinet: 1.200 kg



System example: 1 PCS + 5 Battery cabinets configuration

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Battery Energy Storage System

Specifications

max 500 kW
per PCS



Utility-interactive Mode

Voltage range	600-900 V
DC max current	873 A
AC voltage	400 V
AC current	720 A
Nominal power	500 kVA
AC frequency	50/60 Hz (+2.5 Hz)
THDi	<3%
AC PF	Listed: 0.8-1 leading or lagging (Controllable) Actual: 0.1-1 leading or lagging (Controllable)

Battery Cabinet



Item	Parameters
Rated Energy	215 kWh
Rated Capacity	280 Ah
Rated Voltage	768 V DC
Voltage Range	648-864 V DC
Dimensions	1.200 x 863 x 2.085 mm
Weight	1.900 kg

Module



Item	Parameters
Rated Energy	14.3 kWh
Rated Capacity	280 Ah
Rated Voltage	51.2 V DC
Voltage Range	43.2-57.6 V DC
Weight	110 kg

Cell



Item	Parameters
Chemistry	LFP
Rated Energy	896 Wh
Rated Capacity	280 Ah
Rated Voltage	3.2 V DC
Voltage Range	2.7-3.6 V DC
Weight	5.4 kg

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Battery Energy Storage System

Specifications

RATED PCS POWER (kW) (1 PCS Cabinet)		62.5	125	187.5	250	312.5	375	437.5	500
Battery Cabinets	Rated capacity (kWh)								
1	215	✓	✓						
2	430	✓	✓	✓	✓				
3	645	✓	✓	✓	✓	✓			
4	860	✓	✓	✓	✓	✓	✓	✓	
5	1.075	✓	✓	✓	✓	✓	✓	✓	✓
6	1.290	✓	✓	✓	✓	✓	✓	✓	✓
DC Voltage Range		600~900V							
DC Max Current		109A	218A	327A	436A	545A	654A	763A	873A
AC Voltage		400Vac (3P3W)							
AC Current		90A	180A	270A	360A	450A	540A	630A	720A
Nominal Power		62.5kVA	125kVA	187.5kVA	250kVA	312.5kVA	375kVA	437.5kVA	500kVA
AC Frequency		50/60Hz (+2.5Hz)							
THDi		<3%							
AC PF		Listed: 0.8-1 leading or lagging (Controllable) Actual: 0.1-1 leading or lagging (Controllable)							
Depth of Discharge		80%							
System Efficiency		Max. 93%							
Ambient Temperature		Between -10 °C and 45 °C							
Relative Humidity		5% - 95%							
Altitude		<2000 m							
Protection Level		IP54							
Cooling Methode		Internal Air Conditioning							
Fire Suppression Agent		Stat-X 100T							
Communication Method		API or Modbus RS485							
Conformity		CE, IEC 62619, PGS 37-1, EN 50549-1, EN 50549-2							

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