

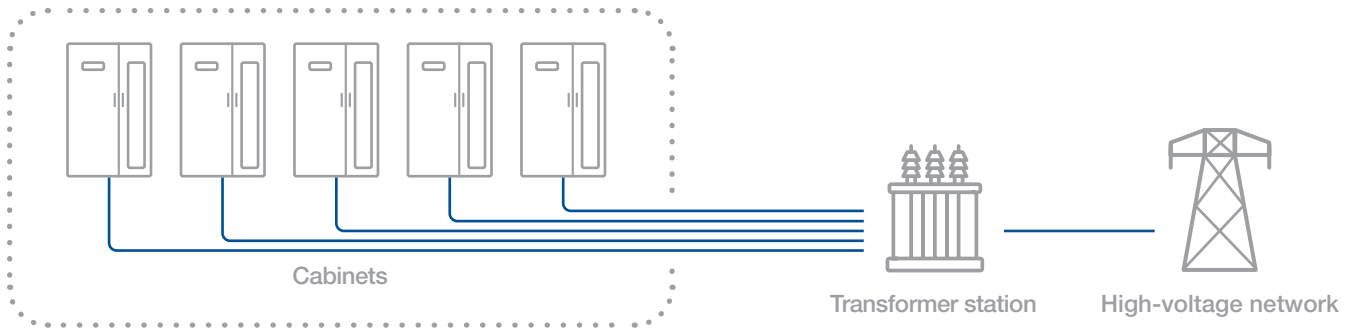
PACCAR POWER SOLUTIONS

Battery Energy Storage System

Liquid Cooled

Configuration

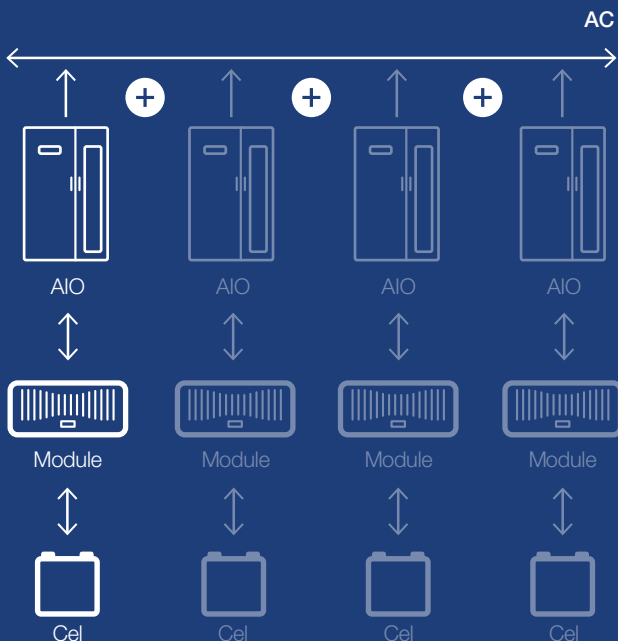
Sample



Configuration options

Number of AIOs	1	2	3	4	5	6	7	8	9	n
Power (kW)	105	210	315	420	525	630	735	840	945	105*n
Energy consumption (kWh)	233	466	699	932	1,165	1,398	1,631	1,864	2,097	233*n

System overview



Item	Value
Battery type	LFP (Tier 1)
Nominal capacity	233 kWh per battery system
Nominal PCS power	105 kW
System configuration	5s1p (5 in series, 1 parallel)
Nominal DC voltage	832 V
AC voltage	400 V
Depth of discharge (DoD)	90%
System efficiency	Up to 89.7%
Ambient temperature	Between -25°C and 55°C
Relative humidity	<95% non-condensing
Height	<4,000 m AMSL
Enclosure protection class	IP55
Protection class modules	IP65
Cooling method	Liquid cooled
Extinguishing agent	Aerosol (at module and system level)
Communication method	API, TCP/IP
Conformity	CE, IEC 62619, IEC 61000, IEC 62933-5-2, IEC 62477, IEC 63056, UL9540A, EU Grid codes

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Cabinet

Dimensions 1,350 × 1,300 × 2,050 mm (L × W × H)

Weight 2,600 kg



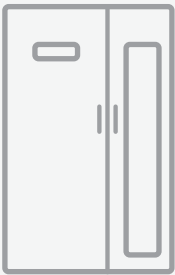
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Liquid Cooled

Specifications

All-in-one system



Item	Parameters
AC voltage	400 VAC
Output	105 kW
Power factor	0–1 (leading or lagging)
Off-grid	Capabilities on request
Frequency	50/60 Hz
THDi	<3% IEEE519
Battery capacity	233 kWh
Battery configuration	1p5s
Maximum cooling power	2.8 kW
Typical auxiliary power	3.5 kW
Round trip efficiency (RTE)	89% (AC SPOC)
IP rating	IP 55

Battery module (5x)



Item	Parameters
Nominal energy consumption	46.6 kWh
Nominal output	23.3 kW
Nominal capacity	280 Ah
Nominal voltage	166 VDC
Voltage range	143–187.2 V
IP rating	IP 65
Cooling	Liquid cooled
Cell configuration	1p52s

Cell (5x52)



Item	Parameters
Chemistry	LFP
Nominal energy consumption	896 kWh
Nominal capacity	280 Ah
Nominal voltage	3.2 VDC
Voltage range	2.5–3.65 VDC
Weight	5.5 kg
Producer	CATL