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Technical specifications

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Titan 215/418



All-in-one cabinet 418 kWh

Optimal solution for PV farms and large industrial projects on 690V and 800V grids.

Technical specification

Parameter	Value	Description
System type	All-in-one cabinet (battery + inverter)	Complete cabinet with liquid cooling
Cell type	LFP 314Ah	Lithium iron phosphate cells
Usable capacity	418 kWh	1P416S configuration
Rated AC power	100 – 215 kW	100 kW (400V) / 215 kW (690V / 800V)
AC Voltage	400V / 690V / 800V	690V and 800V — standard for PV farms and industry
Rated DC voltage	1331,2 V	Battery DC voltage
DC voltage range	1164,8 V – 1497,6 V	Battery operating range
System efficiency	89%	Max. round-trip efficiency
Cycle life	≥ 8 000 cykli	Long battery lifespan
Cooling system	Liquid cooling + forced air	PACK-level liquid cooling + forced air cooling
Protection rating	IP55	Dust and water protection
Fire suppression	Aerosol	PACK-level fire protection
Operating temperature	-25°C do +55°C	Derating above 45°C

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Parameter	Value	Description
Dimensions (W×D×H)	1500 × 1350 × 2400 mm	Compact cabinet — only 2 m ² footprint
Weight	3 800 kg	Total cabinet weight
Noise	≤ 80 dB	Noise level
Communication	Modbus TCP/IP	Communication interface
Scalability	Modular — parallel expansion	Flexible parallel configuration
Grid code	EN50549-1/-2, PN-EN-50549-1/-2	Compliance with Polish and European grid requirements
Certificates	UN38.3, IEC62619, IEC63056, IEC62477-1	Safety and EMC certificates

Voltage variant comparison

DC SIDE			
	A40	A69	A80
Cell type	LFP / 314 Ah		
Pack configuration	52.248 kWh / 1P52S		
System configuration	418 kWh / 1P416S		
Rated DC voltage	1331.2 V		
DC voltage range	1164.8 ~ 1497.6 V		
Max. charge/discharge rate	0.25 P	0.5 P	0.5 P
Max. depth of discharge	100% (25 ± 2 °C)		
AC SIDE			
	A40	A69	A80
Rated output power	100 kW	215 kW	215 kW
Rated AC voltage	400 V	690 V	800 V
AC voltage range	-15% ~ +10%		
Grid type	3W+PE		
Rated frequency	50 Hz / 60 Hz		
Power factor	0.99 / -1 ~ +1		
THDi	≤ 3%		
GENERAL			

DC SIDE

	A40	A69	A80
Cycle life	≥ 8 000		
Communication	Modbus TCP/IP		
Fire suppression	Aerosol		
Ingress rating	IP55		
Cooling	Liquid cooling + forced air cooling		
Operating temperature	-25°C ~ 55°C (derating above 45°C)		
Anticorrosion rating	C4 (C5 optional)		
Humidity	0 ~ 95% RH		
Noise	≤ 80 dB		
Altitude	3000 m (derating above 2000 m)		
Dimensions (W×D×H)	1500 × 1350 × 2400 mm		
Weight	3 800 kg		
Safety / EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4		
Grid code	EN50549-1/-10, EN50549-2/-10, PN-EN-50549-1/-2		