

UTILITY SCALE / NEXT GENERATION

Titan 2.0

6.25 MWh liquid-cooled BESS container



Product illustration. Final equipment configuration is subject to confirmation.

Rated power

3.125 MW

Nominal energy

6.25 MWh

Round-trip efficiency

≥94%

Higher energy density

6.25 MWh in a standard 20-foot container. The source reports 25% more capacity than the previous generation and ≥ 130 Wh/kg.

Liquid-cooled platform

Lithium ∞ Cell 587 Ah LFP cells, glycol-water cooling and source-reported cell temperature difference $\leq 3^{\circ}\text{C}$.

Utility integration

Factory-integrated EMS, BMS, thermal management and fire protection. IEC 61850 connectivity and scalable multi-container deployment.

APPLICATIONS

Utility-scale storage · Renewable integration · Frequency regulation · Data center backup

Titan 2.0

[XC-LCC/6250 / Technical specifications](#)

ELECTRICAL & BATTERY

Product model	XC-LCC/6250
Rated energy / power	6.25 MWh / 3.125 MW (0.5P)
Battery type	LFP, Hithium ∞Cell 587 Ah
Cell configuration	52s × 8p × 8c
Discharge duration	2 hours at full load
Cycle life	≥11,000 cycles (80% DoD, 25°C; source table)
Round-trip efficiency	≥94%
Nominal DC voltage	1,331.2 V
DC voltage range / max. current	1,040-1,500 V / 1,440 A

INTEGRATION & SITE REQUIREMENTS

Cooling	Liquid cooling (glycol-water)
Protection	IP55
Operating temperature	-30°C to 55°C
Altitude	≤4,000 m
Dimensions (W × D × H)	6,058 × 2,438 × 2,896 mm
Weight / container	≤48,000 kg / standard 20-foot container
Communication	CAN / Modbus / Ethernet / IEC 61850

COMMERCIAL & STANDARDS

Warranty in source	10 years, subject to contract confirmation
Referenced standards	IEC 62619, IEC 61850, UN 38.3, ISO 9001, ISO 14001, ISO 45001

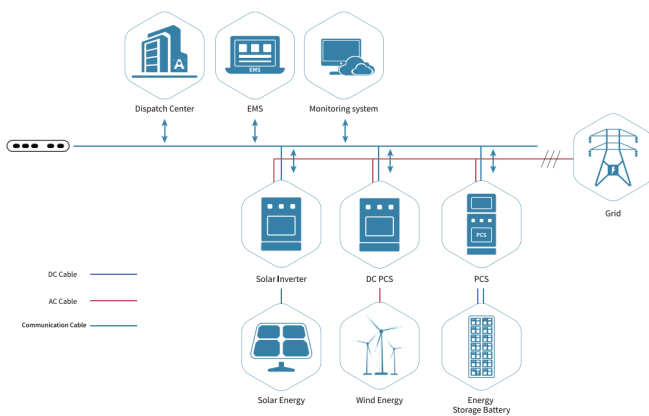
SOURCE & CONFIGURATION NOTES

The source table states 80% DoD for cycle life; its overview also uses 80% EOL. Confirm test conditions, the 20+ year service-life claim and contractual warranty before procurement. ISO references concern management systems, not standalone product performance certification.

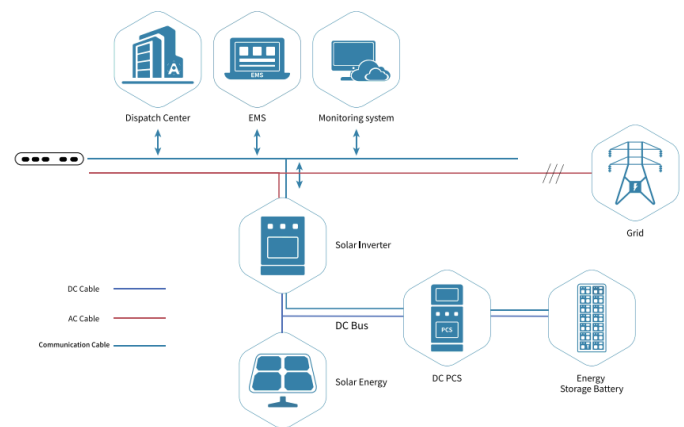
Integration architectures

Application schematics reproduced from the supplied technical document.

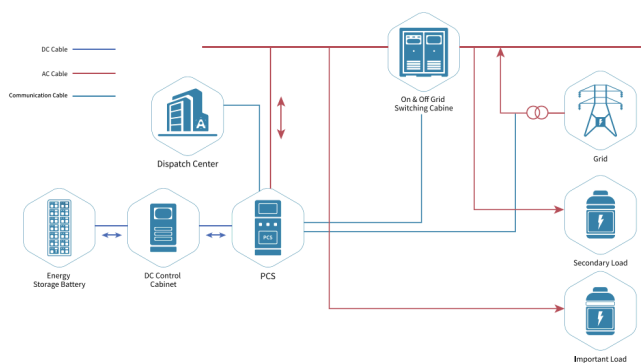
Multi-energy AC connection



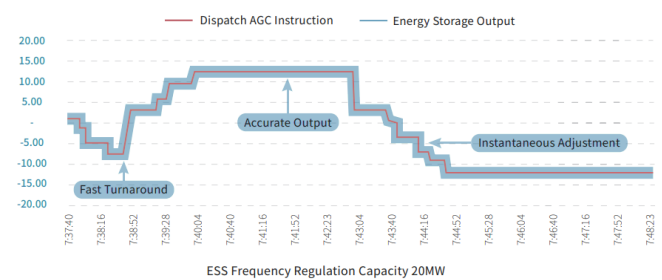
Solar + storage DC architecture



On-grid / off-grid connection



Frequency regulation example



READING THESE SCHEMATICS

The frequency-regulation chart illustrates a 20 MW system example, not the 3.125 MW rating of a single Titan 2.0 unit. These indicative source schematics are not installation drawings or independently verified test results.