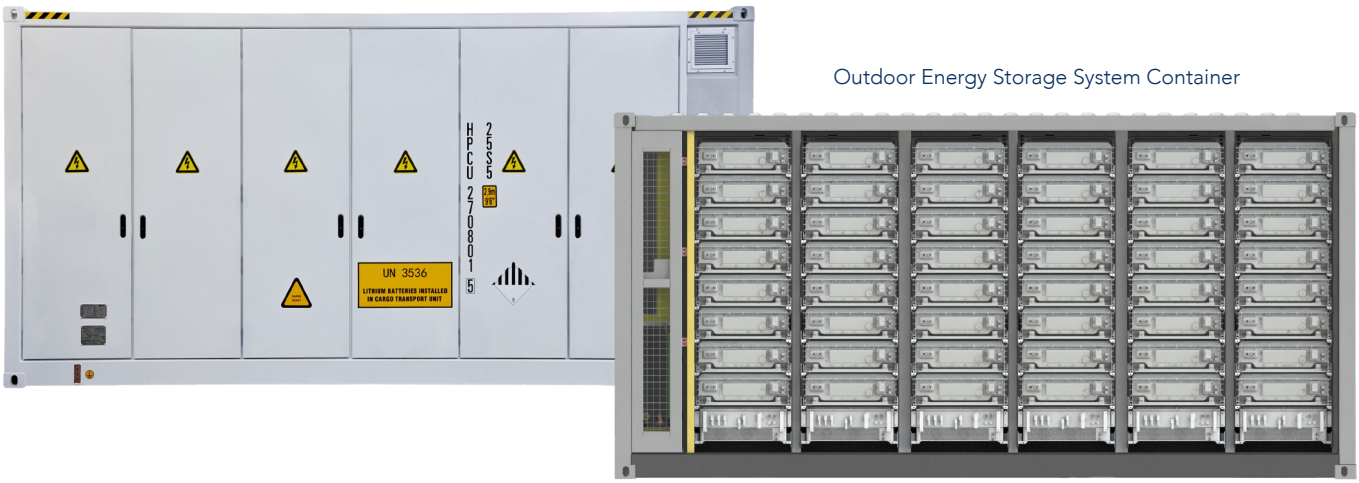
GRID
INFRASTRUCTURE SOLUTIONS

DC CONTAINER



Outdoor Energy Storage System Container

Applications:

This DC Container is a liquid-cooled energy storage solution that integrates lithium iron phosphate batteries (314 Ah), intelligent BMS, and PCS in a standard outdoor platform. It delivers high efficiency (>90%), long cycle life (>8000 cycles), and built-in multi-level protection for safe, stable operation in power system applications.

Features:

- **High Energy Density:** Equipped with next-generation 314 Ah cells, this the system delivers over 5 MWh in a 20-foot container, maximizing energy density and reducing installation and operating costs.
- **Liquid Cooling System:** The system employs full liquid cooling with intelligent temperature control to optimize thermal management and minimize auxiliary power use.
- **Designed for Scalability:** The energy storage container features a modular structure for easy assembly, disassembly, and transport, enhancing both mobility and deployment flexibility.
- **Versatile Enclosure:** Ventilated, weather-sealed doors allow for ventilation, easy access, and reliable outdoor performance across multiple applications, such as on-grid, power generation, user-side, and microgrids.
- **Advanced DC Arc Protection Technology:** High-precision sensing and dynamic arc detection algorithms reduce DC arc risks and enhance system safety.

Lead Time:

Approximately **12-24 months** after drawings approved.

© 2025 GRID Infrastructure Solutions . All Rights Reserved.

DC CONTAINER

Basic Parameters		
Configuration	416S12P	
Communication Protocol	CAN, RS485, TCP/IP	
Thermal Management Methods	Liquid Cooling/Heating	
Operating Ambient Temperature	-30ºC ~ 55ºC	
Altitude	De-rated over 3,000 meters	
Electrical Parameters		
Withstand Voltage	4500V d.c., Leakage Current ≤5mA	
Short Circuit Current	130.56kA @ 12 strings	13.6kA @ 1 string
Rated Energy	5015.9kWh	100% DOD, 0.5P
Rated Voltage	1331.2V	
Operating Voltage Range	1040V ~ 1500V	
Rated Charge Power	2500kW(0.5P)	According to power map
Rated Discharge Power	2500kW(0.5P)	According to power map
Short Peak Charging Power	5000kW@60s	According to power map
Short Peak Discharging Power	5000kW@60s	According to power map
Auxiliary Power Supply	400Vac,50Hz,3L/N/PE(EU) 480Vac,60Hz,3L/N/PE(US)	
DC Side Output Form	1/2/12 Outputs (Optional)	
Mechanical Parameters		
Size / Dimensions	19 ft 10 in × 8 ft 6 in × 8 ft 0 in (6058mm × 2591mm × 2438mm)	L × W × H 20HQ
Mass	~44.5t	
IP Level	IP55	
Certification		
Standard	UL9540A-2019, UN38.3, RoHS, GBT36276-2023	For Module
	UL9504-2019, UL1973-2022, IEC62477-1-2012, IEC62619-2022, IEC63056-2020, IEC60730-1-2022, GBT36276-2023	For String
	UL9540-2023, NFPA68-2023, NFPA69-2024, NFPA855, UN3536, IEC62477-1-2012, IEC62933-5-2-2022, IEC61000-6-2-2016, RoHS, IEC61000-6-4-2018, IEEE Std 693-2018, ISO3744-2010, REACH	For Container

c UL US LISTED IEEE

GRID INFRASTRUCTURE SOLUTIONS
5 Park Plaza, Suite 640
Irvine, CA 92614

Email: sales@grid-infrastructure.com
Phone: +1 (949) 570-8998
Website: grid-infrastructure.com