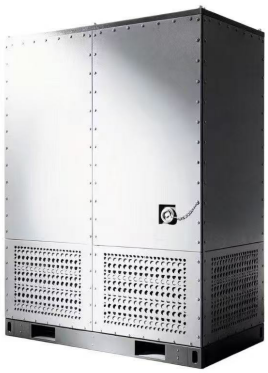
MEDDORE-NA-100KW/259KWH

Sodium-Ion Outdoor Energy Storage Cabinet - Technical Datasheet

MEDDORE-NA-100KW/259KWH



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正面



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General

Product Model	MEDDORE-NA-100KW/259KWH
Product Type	Outdoor all-in-one energy storage cabinet
Applications	C&I storage, PV-storage-charging stations, factories,
	commercial parks, hotels, supermarkets, communities
Battery Type	Sodium-ion (Na-ion)
Protection Rating	IP54
Cycle Life	>= 6,000 cycles

DC Side

Cell Model	2.85 V / 175 Ah
Configuration	2P260S
Rated Energy	259.35 kWh
Nominal Voltage	DC 741 V
Voltage Range	DC 390 - 880 V

AC Grid-Tied Parameters

Rated Power	100 kW (110% continuous, 120% for 1 min)
Rated Current	150 A
Rated AC Voltage	380/400 VAC (-15% ~ +15%)
Grid Connection	Three-phase four-wire
Frequency	45 - 55 Hz / 55 - 65 Hz
Current THD	< 3% at rated power
DC Component	< 0.5%

Charge/Discharge Transfer Time	< 20 ms
Power Factor	> 0.99 at rated power

Off-Grid Parameters

Rated Voltage / Frequency	380/400 VAC / 50-60 Hz
Voltage Control Precision	< 1%
Voltage Imbalance	< 2%
Voltage Distortion	< 3% (non-linear loads supported)

System Parameters

Working Temperature	-10 ~ 55 °C (derating above 45 °C)
Working Humidity	0 - 95% RH, non-condensing
Altitude	<= 2,000 m (derating above)
Conversion Efficiency	>= 88% @ 0.5p
Cooling	Air cooling design, industrial AC + fans
Fire Safety	Aerosol + water fire protection, pack-level detection
Communication	Ethernet / RS485 / 4G
Weight	4,800 kg
Dimensions (W x D x H)	1,877 x 1,494 x 2,354 mm (+/- 5 mm)

Key Functions

- Peak shaving & valley filling with EMS-based load tracking and demand control
- Grid-tied and off-grid operation modes with black-start capability
- Pack-level battery detection and pack-level fire protection
- Multi-machine parallel operation; flexible expansion
- Supports PV integration - green energy solution with 24h uninterrupted power
- Cloud EMS platform management, IoT design, intelligent edge computing

Standard Configuration

Storage cabinet 100kW/259kWh	1 set (incl. items below)
Cabinet body 1877x1494x2354	1 pc
PCS (storage converter)	1 pc, 100 kW
DCDC module	1 pc, 100 kW
EMS controller	1 set, incl. EMS software
High-voltage box	1 pc, incl. BMS
Battery PACK (2.85V/175Ah, 1P52S)	10 pcs, incl. BMU & fans
Industrial air conditioner	2 pcs, 3,000 W
Fire suppression system	1 set, aerosol + pack-level
Cloud management platform	1 set