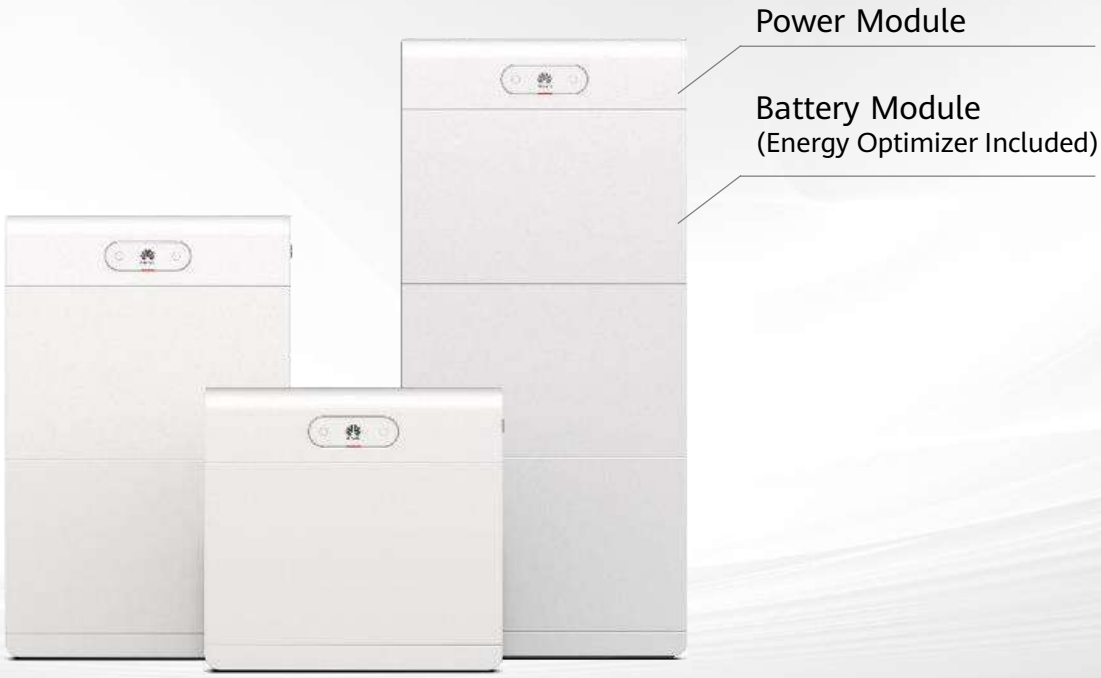
HUAWEI

SMART STRING ENERGY STORAGE SYSTEM

LUNA2000-7/14/21-S1



Flexible Capacity
6.9 kWh per Battery Module
Scalable from 6.9 kWh to 20.7 kWh per Group
Max. 4 Groups with 82.8 kWh for an Inverter[8]

More Usable Energy
Module+ Architecture, Built-in Energy Optimizer
Ultra-long Service Time
100% Depth of Discharge

5-layer Safety Protection
Cell-level, Electrical-level,
Structural-level
Active Protection, Emergency Protection

Ultimate Use Experience
-20 ℃ to +55℃ Operating Temperature
Max 10.5kW Charging & Discharging Power per Group
Super Quiet Operation

Easy Installation
Cable Free Connection Between Modules
Horizontal Adjustment Design
Quick Commissioning

Aesthetically Pleasing Design
Breathing Star Ring Display
Silky Curve Design
Simplistic and Borderless

LUNA2000-7/14/21-S1
Technical Specification

LUNA2000-7-S1

LUNA2000-14-S1

LUNA2000-21-S1

Performance			
Power module	LUNA2000-10KW-C1		
Number of power modules	1		
Battery module	LUNA2000-7-E1		
Battery module energy	6.9 kWh		
Number of battery modules	1	2	3
Battery usable energy[1]	6.9 kWh	13.8 kWh	20.7 kWh
Max. charging & discharging power	3.5 kW	7 kW	10.5 kW
Operating voltage range (single-phase system)	350 – 560 V		
Operating voltage range (three-phase system)	600 – 980 V		
Communication			
Display	SOC status indicator, LED indicator		
Communication[2]	RS485/FE/CAN		
General Specification			
Dimensions (W x D x H)	590 mm x 255 mm x 510 mm	590 mm x 255 mm x 870 mm	590 mm x 255 mm x 1230 mm
Weight (Floor stand toolkit included)	80 kg	148 kg	216 kg
Power module dimension (W x D x H)	590 mm x 255 mm x 150 mm		
Power module weight	10 kg		
Battery module dimensions (W x D x H)	590 mm x 255 mm x 360 mm		
Battery module weight[3]	68 kg		
Installation	Floor stand (standard), Wall mounting (optional)		
Operating temperature[4]	-20℃ to +55℃ (-4℉ to +131℉)		
Max. operating altitude[5]	4,000 m (13,123 ft.) (Derating above 2,000 m)		
Environment[6]	Outdoor/Indoor		
Relative humidity	5% - 95%		
Cooling	Natural convection		
Protection rating	IP 66		
Noise emission	< 29 dB[7]		
Cell technology	Lithium iron phosphate ($LiFePO_4$)		
Scalability[8]	Max. 4 systems in parallel operation		
Compatible inverters[9]	SUN2000-12/15/17/20/25K-MB0, SUN2000-3/4/5/6/8/10KTL-M1 SUN2000-5/6/8/10/12K-MAP0, SUN2000-8/10K-LC0, SUN2000-2/3/3.68/4/4.6/5/6KTL-L1 SUN5000-8/12K-MAP0, SUN5000-17/25K-MB0		
Standards Compliance (more available upon request)			
Certificates	CE, RCM, CEC, VDE2510-50, IEC62619, IEC 60730, UN38.3, ISO13849, REACH, RoHS		
Ordering and Deliverable Part			
Available for ordering[10]	LUNA2000-7-E1, LUNA2000-10KW-C1, Wall Mounting Bracket for LUNA2000-7/14/21-S1		

1. Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25℃, at the beginning of service life.
2. CAN is for communication between energy storage in parallel scenarios only. Launch time of FE communication is to be determined, please confirm with your local product manager of Huawei for final version.
3. The weight of the battery modules varies with products, with a tolerance of ±3%.
4. The output power may be affected by temperature. Please refer to the output derating curve for details.
5. The output power may be affected by altitude. Please refer to the output derating curve for details.
6. Outdoor installation is recommended. For indoor installation instructions, please refer to the user manual.
7. The data is from Huawei lab, and the test condition is 1m distance and typical working voltage.
8. Only SUN2000-12/15/17/20/25K-MB0 supports 4 energy storage systems in parallel operation.
9. LUNA S1 will be compatible with inverter SUN2000 MAP0/L1/LC0 and SUN5000 MAP0/MB0 in 2024.Q3.
10. The power module and battery modules of the storage system are separately order in the required quantity.

Disclaimer: The preceding values are measured in an internal laboratory of Huawei in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.

EU Declaration of Conformity

(No. CE-10656095)

We **Huawei Digital Power Technologies Co., Ltd.**

Office 01, 39th Floor, Block A, Antuoshan Headquarters Towers, 33 Antuoshan 6th Road, Futian District, Shenzhen, 518043, P.R.C.

declare that the product

Name/Trademark : Energy Storage Module/HUAWEI

Model : LUNA2000-7-E1

complies with the following directives:

- **2014/35/EU (Low Voltage Directive)**
- **2014/30/EU (EMC Directive)**
- **(EU) 2023/1542 (Batteries Regulation)**

For the evaluation of the compliance with these Directives, the following standards have been applied:

Safety	EN IEC 62040-1:2017+A1:2021 EN 62477-1:2012+A11:2014+A1:2017+A12:2021
EMC	EN 55011:2016+A11:2020 (Group 1) EN 55011:2016+A2:2021 (Group 1) EN 62920:2017+A11:2020 EN 62920:2017+A1:2021 EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021
Batteries Regulation	EN IEC 63000:2018
	IEC 62477-1:2012+A1:2016（ Clause 5.2.2.4.2.3+ 5.2.2.4.3+ 5.2.6.4） EN/IEC 63056:2020（ Clause 7.6+7.8+7.9.3） EN/IEC 62619:2022（ Clause 7.3.2+8.2.4+7.2.3.3+7.2.4+7.3.2） VDE-AR-E 2510-50:2017（ Clause 6.2.4） ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3（ Clause T.1） UL 1973:2022（ Clause Annex E）

This declaration of conformity is issued under the sole responsibility of the manufacturer.

CE Marking Date:

Responsible for making this declaration is the:

☑ Manufacturer ☐ Authorised representative established within the EU

Signed for and on behalf of: Huawei Digital Power Technologies Co., Ltd.

Print name/Title : WengYuan / Regulation Compliance Manager

Shenzhen, China (Place) 2024-07-24 (Date) Weng Yuan (Signature)

Ref. Certif. No.

JPTUV-153238

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Rechargeable lithium ion battery
Name and address of the applicant	Huawei Digital Power Technologies Co., Ltd. Office 01, 39th Floor, Block A, Antuoshan Headquarters Towers, 33, Antuoshan 6th Road, Futian District, Shenzhen 518043, Guangdong, P.R. China
Name and address of the manufacturer	Huawei Digital Power Technologies Co., Ltd. Office 01, 39th Floor, Block A, Antuoshan Headquarters Towers, 33, Antuoshan 6th Road, Futian District, Shenzhen 518043, Guangdong, P.R. China
Name and address of the factory	See additional page(s)
Ratings and principal characteristics	Input/Output : 350-980Vdc Battery Energy: 6.9kWh
Trademark (if any)	HUAWEI
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	LUNA2000-7-E1
Additional information (if necessary may also be reported on page 2)	
A sample of the product was tested and found to be in conformity with	IEC 62619:2017
As shown in the Test Report Ref. No. which forms part of this Certificate	CN23GGAA 001

This CB Test Certificate is issued by the National Certification Body

TÜVRheinland®

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web : www.tuv.com

Date: 2023-10-20

Signature:

A. Chen

10/061 CB 06/20v9 rk

1. Shenzhen BYD Electronics Co., Ltd.
   Room 301 of BYD A-4 Building,
   No.1 Yan'an Road, Kuichong Street,
   Dapeng New District Shenzhen
   518119 Guangdong, P.R. China

2. Huizhou Desay Battery Co., Ltd
   No.12, Guangtai Road,
   Huinan High-tech Industrial Park,
   Huizhou City,
   Guangdong, P.R. China

3. Huizhou Sunwoda Energy Technology
   Co.,Ltd.
   "Jiweidu" (local name) section of
   Zhenxing Avenue, Lixi Economic Union,
   Yuanzhou Town, Boluo County, Huizhou City, Guangdong, P.R. China

Additional information (if necessary) Report Ref. No. : CN23GGAA 001

Date: 2023-10-20 Signature: A. Chen