



Ref. Certif. No.

SG PSB-OF-07066M1

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

## CB TEST CERTIFICATE

Product	Energy Storage System (Smart String ESS)
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 518043 Shenzhen PEOPLE'S REPUBLIC OF 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, 518043 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Name and address of the factory	Dongguan Yangtian Electron Technologies Co., Ltd. No.152, Luyuan RD, Science City, Tangxia Town, 523718 Dongguan City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	See page 2
Model/type Ref.	LUNA2000-200KWH-2H1, LUNA2000-161KWH-2H1, LUNA2000-129KWH-2H1, LUNA2000-97KWH-1H1
Additional information (if necessary)	Certificate SG PSB-OF-07066 issued on 2023-02-24 is replaced by this version due to technical changes.
A sample of the product was tested and found to be in conformity with	IEC 62040-1:2017
as shown in the Test Report Ref. No. which forms part of this certificate	085-223139101-100

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This CB Test Certificate is issued by the National Certification Body

CBS 114387 0104 Rev. 00

Date, 2023-08-24

( Billy Qiu )

TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937



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Trademark / Brand (Image)



Name and address of the factory (continued)

Kaiping Renda Electrics Industry Co., Ltd  
No. 1 Chengnansan Road, Cuishanhu New District, Kaiping City, 529353  
Jiangmen City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA

Ratings and principal characteristics

Model:	LUNA2000-200KWH-2H1	LUNA2000-161KWH-2H1	LUNA2000-129KWH-2H1	LUNA2000-97KWH-1H1	
Internal battery system					
Battery Module	ESM51320AS1	ESM-57280AS1	ESM-57280AS1		
Battery Type	LFP				
Rated Voltage	665 Vd.c.	720 Vd.c.	576.0 Vd.c.	460.8 Vd.c.	345.6 Vd.c.
Battery Voltage Range	340~700 Vd.c.	388~788 Vd.c.	490~650 Vd.c.	390~520 Vd.c.	300~390 Vd.c.
Rated Energy Capacity	193.5 kWh		161.3 kWh	129.0 kWh	96.8 kWh
Max. Charging Current	170 Ad.c.	140 Ad.c.	215 Ad.c.	270 Ad.c.	280 Ad.c.
Max. Discharging Current	170 Ad.c.	145 Ad.c.	170 Ad.c.	215 Ad.c.	270 Ad.c.
Energy Storage System PCS grid input/output					
Rated AC Voltage	380/400/440 Va.c., 3W+PE				
Rated AC Current	131.2 Aa.c. @440 Va.c. 144.3 Aa.c. @400 Va.c. 151.9 Aa.c. @380 Va.c.			120.7 Aa.c. @440 Va.c. 132.9 Aa.c. @400 Va.c. 139.8 Aa.c. @380 Va.c.	
Max. Output Current (1min)	173.2 Aa.c.				
Rated Frequency	50/60 Hz				
Rated Active Power	100 kW			92 kW	
Power Factor	-1(lagging)~1(leading)				
Auxiliary Supply					
Rated Voltage	200~240 Va.c.				
Max. Input Power	4.2 kW				
Rated Frequency	50/60 Hz				
Overvoltage Category	II				
General					
Protection Class	I				
Operating Temperature Range	-30°C ~ 55 °C				
Enclosure	IP55 (Battery Pack Cabinet); IP66 (DC/DC converter and PCS)				

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