



Ref. Certif. No.

SG PSB-IT-00260M1

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 Technologies Co., Ltd. Administration Building Headquarters of Huawei Technologies Co., Ltd. Bantian, Longgang District 518129 Shenzhen PEOPLE'S REPUBLIC OF CHINA
Name and address of the manufacturer	Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, 518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Name and address of the factory	Dongguan Yang Tian Electronic Technology Co. Ltd. Huiyang Branch Dadonggang District. Xiapu Village Group, Maxi Village, Yonghu Town, 516200 Huizhou City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	See below pages
Model/type Ref.	LUNA2000-2.0MWH-1H0 Include: DC/DC Converter (Smart Rack Controller (ESC360kw-F)) & Energy Storage Module (ESM51320AS1) LUNA2000-2.0MWH-2H1, LUNA2000-2.0MWH-1H1, LUNA2000-2.0MWH-4H1, LUNA2000-1.0MWH-1H1 Include: DC/DC Converter (Smart Rack Controller (ESC360kw-F)) & Energy Storage Module (ESM-57280AS1)
Additional information (if necessary)	Certificate SG PSB-IT-00260 issued on 2023-01-18 is replaced by this version due to technical changes.
A sample of the product was tested and found to be in conformity with	IEC 62477-1:2012 IEC 62477-1:2012/AMD1:2016
as shown in the Test Report Ref. No. which forms part of this certificate	085-223136101-100

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This CB Test Certificate is issued by the National Certification Body

CBS 041829 4944 Rev. 00

Date, 2023-03-21

( Billy Qiu )

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



PSB Singapore

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Trademark / Brand (Image)



Name and address of the factory (continued)

Huizhou Sunwoda Energy Technology Co., Ltd.  
 "Jiweidu" (local name) section of Zhenxing Avenue, Lixi Economic Union,  
 Yuanzhou Town, Boluo County, 516000 Huizhou City, Guangdong,  
 PEOPLE'S REPUBLIC OF CHINA

## Ratings and principal characteristics

Model:	LUNA2000-2.0MWH-1H0	LUNA2000-2.0MWH-2H1	LUNA2000-2.0MWH-1H1	LUNA2000-2.0MWH-4H1
<b>Internal battery system</b>				
Battery Module	ESM51320AS1	ESM-57280AS1	ESM-57280AS1	ESM-57280AS1
Battery Type	LFP	LFP	LFP	LFP
Cell Nominal Voltage	3.2 Vd.c.	3.2 Vd.c.	3.2 Vd.c.	3.2 Vd.c.
Nominal Voltage	1075.2 Vd.c.	1209.6Vd.c.	1209.6Vd.c.	1209.6Vd.c.
Battery Voltage Range	907-1227 Vd.c.	1020~1365 Vd.c.	1020~1365 Vd.c.	1020~1365 Vd.c.
Nominal Energy Capacity	2064 kWh	2032 kWh	2032 kWh	2032 kWh
Max. Charging/Discharging Current	320 A×6	280 A×3	280 A×6	168 A×3
<b>Energy Storage System DC busbar input/output</b>				
Rated DC Voltage	1200 Vd.c.	1250 Vd.c.	1250 Vd.c.	1250 Vd.c.
Max. DC Voltage	1500 Vd.c.	1500 Vd.c.	1500 Vd.c.	1500 Vd.c.
Max. Charging/Discharging Current	320 A×6	280 A×3	280 A×6	168 A×3
Max. Power	344 kW×6	339 kW×3	339 kW×6	169.5 kW×3
<b>Auxiliary Supply</b>				
Nominal Voltage	380/400 Va.c., 3W+N+PE	380/400 Va.c., 3W+N+PE	380/400 Va.c., 3W+N+PE	380/400 Va.c., 3W+N+PE
Nominal Current	104 Aa.c.	104 Aa.c.	104 Aa.c.	104 Aa.c.
Nominal Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Over Voltage Category	II	II	II	II
<b>General</b>				
Protection Class	I	I	I	I
Operating Temperature Range	-30°C - 55 °C	-30°C - 55 °C	-30°C - 55 °C	-30°C - 55 °C
Enclosure	IP55 (Battery Cabin and Control Unit Cabin)	IP55 (Battery Cabin and Control Unit Cabin)	IP55 (Battery Cabin and Control Unit Cabin)	IP55 (Battery Cabin and Control Unit Cabin)
Dimensions (W × H × D)	6058 mm x 2896mm x 2438 mm	6058 mm x 2896mm x 2438 mm	6058 mm x 2896mm x 2438 mm	6058 mm x 2896mm x 2438 mm

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Model:	LUNA2000-1.0MWH-1H1
Internal battery system	
Battery Module	ESM-57280AS1
Battery Type	LFP
Cell Nominal Voltage	3.2 Vd.c.
Nominal Voltage	1209.6Vd.c.
Battery Voltage Range	1020~1365 Vd.c.
Nominal Energy Capacity	1016 kWh
Max. Charging/Discharging Current	280 A×3
Energy Storage System DC busbar input/output	
Rated DC Voltage	1250 Vd.c.
Max. DC Voltage	1500 Vd.c.
Max. Charging/Discharging Current	280 A×3
Max. Power	339 kW×3
Auxiliary Supply	
Nominal Voltage	380/400 Va.c., 3W+N+PE
Nominal Current	104 Aa.c.
Nominal Frequency	50/60 Hz
Over Voltage Category	II
General	
Protection Class	I
Operating Temperature Range	-30°C - 55 °C
Enclosure	IP55 (Battery Cabin and Control Unit Cabin)
Dimensions (W × H × D)	6058 mm x 2896mm x 2438 mm

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