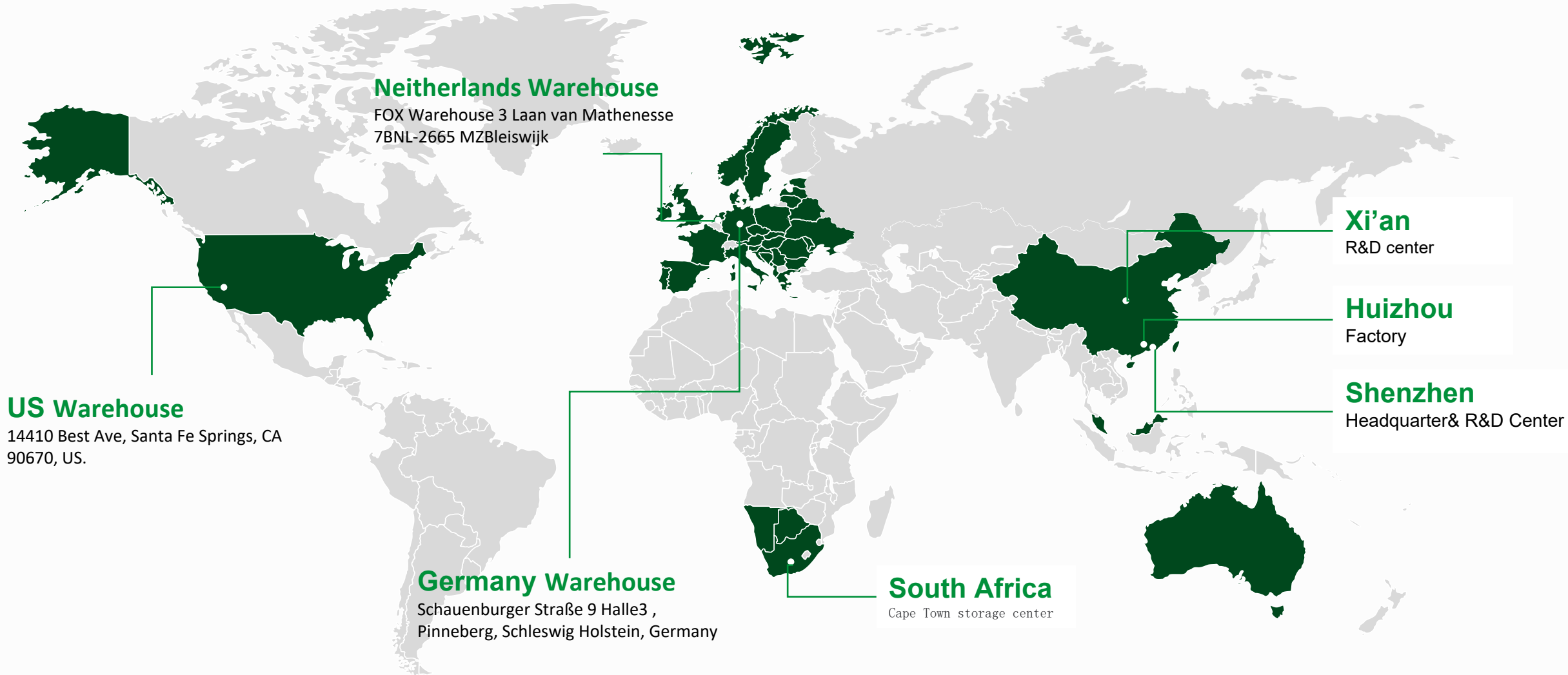




KOWINT ENERGY

KOWINT Main Business in 2023



US Warehouse

14410 Best Ave, Santa Fe Springs, CA
90670, US.

Netherlands Warehouse

FOX Warehouse 3 Laan van Mathenesse
7BNL-2665 MZBleiswijk

Germany Warehouse

Schauenburger Straße 9 Halle3,
Pinneberg, Schleswig Holstein, Germany

South Africa

Cape Town storage center

Xi'an

R&D center

Huizhou

Factory

Shenzhen

Headquarter & R&D Center

KOWINT Development Roadmap



2014

BMS Development



230V battery for DPS



2017

IATF-16949

2019

ISO9001/ISO14001 certification
W5000,R5000
UPS battery 192V/384V



2021

Super- Li



2022

200,000 m²
Industrial park
S40k



2023

Power Matrix
iCharger
Energon



2025

5Gwh
Establishing a sound
service system for EU,
USA.

CERTIFICATES



TUV, Third-party authority certification

EURO: ICE62619/62620 CE UKCA

US: UL1973 UL9540 CEC



Zertifikat Certificate

Zertifikat No. Certificate No. 2 50572303 0001

The Zertifikat Client Reference 168393676 **Lower Zertifikat Our Reference** 02--CH22HX91.001 **Ausstellungsdatum Date of Issue** 17.01.2023 **Ungültigkeitsdatum Date of Expiry** (day/month)

Geschäftsinhaber License Holder Kowint Energy (ShenZhen) Co., Ltd
Fertigungsstätte Manufacturing Plant Refer to latest revision of the annex list of factories

1709, Office Building 3B, Vanke Times Square, No. 85, Longcheng Avenue, Shangjing Community, Longcheng Street, Longgang Dist., Shenzhen, Guangdong P.R. China

Prüfverfahren Test Method **Geprüft nach Tested acc. to** IEC 62619:2022
Typ Approved Safety Register Production Identification **SN IEC 62619:2022**

Zertifikatsprodukt (Certificate Identification) **Lizenzregeln - E-Inhalt License Fee - Unit**

Certified Product (Product Identification) **Lithium-ion battery (Lithium battery module)**

Type Designation 1) R5000-07, 2) R5000-07A, 3) R5000-08, 4) R5000-08A

Rated Capacity 1) 11210Ah, 2) 11210Ah, 3) 100Ah, 4) 120Ah

Rated Voltage 3) 48.0V, 4) 48.0V

Rated Discharge Current 1) 1.0C, 2) 1.0C, 3) 1.0C, 4) 1.0C

Charging Temperature Range 0 to 50°C

Discharging Temperature Range -20 to 50°C

Remarks 1) and 4) are equipped with heating function.

ANLAGEN (Appendix): 1.0

Das Zertifikat gilt nur für die in den Prüfverfahren genannten und in der Produktbeschreibung angegebenen Produkte und die in der Produktbeschreibung angegebenen Hersteller. Es ist nicht zulässig, die in den Prüfverfahren genannten Produkte zu modifizieren oder zu kombinieren. Die Hersteller sind verpflichtet, die in den Prüfverfahren genannten Produkte mit den in den Prüfverfahren genannten Prüfverfahren zu prüfen. Die Hersteller sind verpflichtet, die in den Prüfverfahren genannten Produkte mit den in den Prüfverfahren genannten Prüfverfahren zu prüfen. Die Hersteller sind verpflichtet, die in den Prüfverfahren genannten Produkte mit den in den Prüfverfahren genannten Prüfverfahren zu prüfen.

YÜV Rheinland LGA Products GmbH, Hiltstraße 2, 99431 Nürnberg
Reg.Ausweisnummer: E-mail: markus.klein@yuv.de
Phone: +49 91 266-7937

Zertifizierungsstelle
A. Chen

CERTIFICATE of Conformity

EC Council Directive 2014/53/EU

Certificate No.: XK2303013010C

Applicant: Kowint Energy(ShenZhen)Co., Ltd
1709, Office Building 3B, Vanke Times Square, No. 85, Longcheng Avenue, Shangjing Community, Longcheng Street, Longgang Dist., Shenzhen, Guangdong, P.R. China

Manufacturer: Rui Zhi Xin Neng Yuan (RuiXin) Co., Ltd
Kangqi Industrial Park, Yuhu Road, Saha Street, Huayang District, Huaihou, Guangdong 516215, China

Product: Energy Storage Module

Model/Type No.: R5000, R5000-ST, R5000-STW, R5000-S5, R5000-S5W

Brand Name: EN EC 61000-4-3:2011
 EN EC 61000-6-1:2019
 EN 61000-3-3:2013+A2:2011+AC:2022
 EN EC 61000-3-2:2019+A1:2021

Test Standard:

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report is at the applicant's disposal. This is to certify the tested sample that is in conformity with all provisions of above EMC Directive. It is only valid in connection with the test report number XK2303013010C.

The certificate does not imply the assessment of the production and does not permit using the SICT's logo without permission.

Authorized Signer: Andy Vong/Manager
Date: March 14, 2023

Shenzhen SICT Technology Co., Ltd.
202, Building 3, No.111 Hanguang Middle Road, Songjiamao Community, Gasimou Street, Longhua District, Shenzhen, Guangdong, China
E-mail: shenzhen@sictp.com.cn Phone: +86 755 27652222

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

EC Council Directive 2014/53/EU

Certificate No.: XK2303013010C

Applicant: Kowint Energy(ShenZhen)Co., Ltd
1709, Office Building 3B, Vanke Times Square, No. 85, Longcheng Avenue, Shangjing Community, Longcheng Street, Longgang Dist., Shenzhen, Guangdong, P.R. China

Manufacturer: Rui Zhi Xin Neng Yuan (RuiXin) Co., Ltd
Kangqi Industrial Park, Yuhu Road, Saha Street, Huayang District, Huaihou, Guangdong 516215, China

Product: Energy Storage Module

Model/Type No.: R5000, R5000-ST, R5000-STW, R5000-S5, R5000-S5W

Brand Name: EN EC 61000-4-3:2011
 EN EC 61000-6-1:2019
 EN 61000-3-3:2013+A2:2011+AC:2022
 EN EC 61000-3-2:2019+A1:2021

Test Standard:

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report is at the applicant's disposal. This is to certify the tested sample that is in conformity with all provisions of above EMC Directive. It is only valid in connection with the test report number XK2303013010C.

The certificate does not imply the assessment of the production and does not permit using the SICT's logo without permission.

Authorized Signer: Andy Vong/Manager
Date: March 14, 2023

Shenzhen SICT Technology Co., Ltd.
202, Building 3, No.111 Hanguang Middle Road, Songjiamao Community, Gasimou Street, Longhua District, Shenzhen, Guangdong, China
E-mail: shenzhen@sictp.com.cn Phone: +86 755 27652222

CERTIFICATE of Conformity

EC Council Directive 2014/53/EU

Certificate No.: XK2303013010C

Applicant: Kowint Energy(ShenZhen)Co., Ltd
1709, Office Building 3B, Vanke Times Square, No. 85, Longcheng Avenue, Shangjing Community, Longcheng Street, Longgang Dist., Shenzhen, Guangdong, P.R. China

Manufacturer: Rui Zhi Xin Neng Yuan (RuiXin) Co., Ltd
Kangqi Industrial Park, Yuhu Road, Saha Street, Huayang District, Huaihou, Guangdong 516215, China

Product: Energy Storage Module

Model/Type No.: R5000, R5000-ST, R5000-STW, R5000-S5, R5000-S5W

Brand Name: EN EC 61000-4-3:2011
 EN EC 61000-6-1:2019
 EN 61000-3-3:2013+A2:2011+AC:2022
 EN EC 61000-3-2:2019+A1:2021

Test Standard:

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report is at the applicant's disposal. This is to certify the tested sample that is in conformity with all provisions of above EMC Directive. It is only valid in connection with the test report number XK2303013010C.

The certificate does not imply the assessment of the production and does not permit using the SICT's logo without permission.

Authorized Signer: Andy Vong/Manager
Date: March 14, 2023

Shenzhen SICT Technology Co., Ltd.
202, Building 3, No.111 Hanguang Middle Road, Songjiamao Community, Gasimou Street, Longhua District, Shenzhen, Guangdong, China
E-mail: shenzhen@sictp.com.cn Phone: +86 755 27652222

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 18722E1245R05

We hereby certify that
Kowint Energy(ShenZhen)Co.,Ltd

Unified social credit code: 91440300MA5H6V9P9C

Registered Address: 1709 3B, Vanke Times Square, No. 85 Longcheng Avenue, Longgang District, Shenzhen China

Operating/production/processing Address: 1709 3B, Vanke Times Square, No. 85 Longcheng Avenue, Longgang District, Shenzhen China

the established environmental management system compliance with the following standard:
GB/T24001-2016 idt ISO14001:2015

The range of certifications passed is:
R&D and sales of energy storage lithium batteries

Date of Issue: November 01, 2022
Date of Expiry: October 31, 2025

Shenzhen SICT Technology Co., Ltd.
202, Building 3, No.111 Hanguang Middle Road, Songjiamao Community, Gasimou Street, Longhua District, Shenzhen, Guangdong, China
E-mail: shenzhen@sictp.com.cn Phone: +86 755 27652222

CERTIFICATE of Conformity

EC Council Directive 2014/53/EU

Certificate No.: XK2303013010C

Applicant: Kowint Energy(ShenZhen)Co., Ltd
1709, Office Building 3B, Vanke Times Square, No. 85, Longcheng Avenue, Shangjing Community, Longcheng Street, Longgang Dist., Shenzhen, Guangdong, P.R. China

Manufacturer: Rui Zhi Xin Neng Yuan (RuiXin) Co., Ltd
Kangqi Industrial Park, Yuhu Road, Saha Street, Huayang District, Huaihou, Guangdong 516215, China

Product: Energy Storage Module

Model/Type No.: R5000, R5000-ST, R5000-STW, R5000-S5, R5000-S5W

Brand Name: EN EC 61000-4-3:2011
 EN EC 61000-6-1:2019
 EN 61000-3-3:2013+A2:2011+AC:2022
 EN EC 61000-3-2:2019+A1:2021

Test Standard:

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report is at the applicant's disposal. This is to certify the tested sample that is in conformity with all provisions of above EMC Directive. It is only valid in connection with the test report number XK2303013010C.

The certificate does not imply the assessment of the production and does not permit using the SICT's logo without permission.

Authorized Signer: Andy Vong/Manager
Date: March 14, 2023

Shenzhen SICT Technology Co., Ltd.
202, Building 3, No.111 Hanguang Middle Road, Songjiamao Community, Gasimou Street, Longhua District, Shenzhen, Guangdong, China
E-mail: shenzhen@sictp.com.cn Phone: +86 755 27652222

Examination Certificate of SICT

CERTIFICATE of Conformity

Electromagnetic Compatibility Regulations

Certificate No.: XK2303013010C

Applicant: Kowint Energy(ShenZhen)Co., Ltd
1709, Office Building 3B, Vanke Times Square, No. 85, Longcheng Avenue, Shangjing Community, Longcheng Street, Longgang Dist., Shenzhen, Guangdong, P.R. China

Manufacturer: Rui Zhi Xin Neng Yuan (RuiXin) Co., Ltd
Kangqi Industrial Park, Yuhu Road, Saha Street, Huayang District, Huaihou, Guangdong 516215, China

Product: Energy Storage Module

Model/Type No.: R5000, R5000-ST, R5000-STW, R5000-S5, R5000-S5W

Brand Name: EN EC 61000-4-3:2011
 EN EC 61000-6-1:2019
 EN 61000-3-3:2013+A2:2011+AC:2022
 EN EC 61000-3-2:2019+A1:2021

Test Standard:

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report is at the applicant's disposal. This is to certify the tested sample that is in conformity with all provisions of above EMC Directive. It is only valid in connection with the test report number XK2303013010C.

The certificate does not imply the assessment of the production and does not permit using the SICT's logo without permission.

Authorized Signer: Andy Vong/Manager
Date: March 14, 2023

Shenzhen SICT Technology Co., Ltd.
202, Building 3, No.111 Hanguang Middle Road, Songjiamao Community, Gasimou Street, Longhua District, Shenzhen, Guangdong, China
E-mail: shenzhen@sictp.com.cn Phone: +86 755 27652222



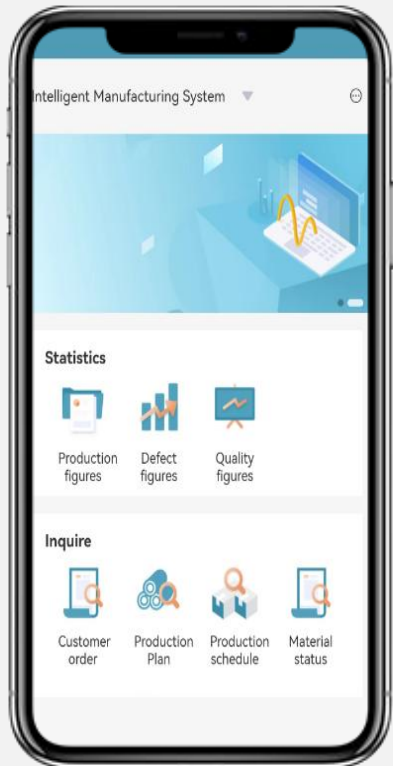
MATCHING INVERTER



MES (Manufacturing Execution System)

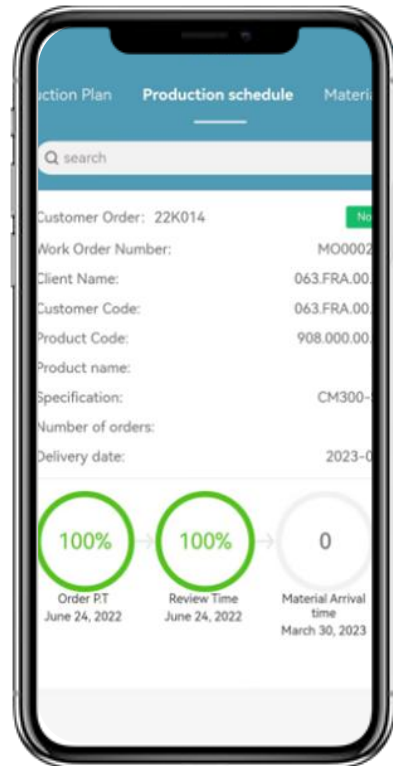


01



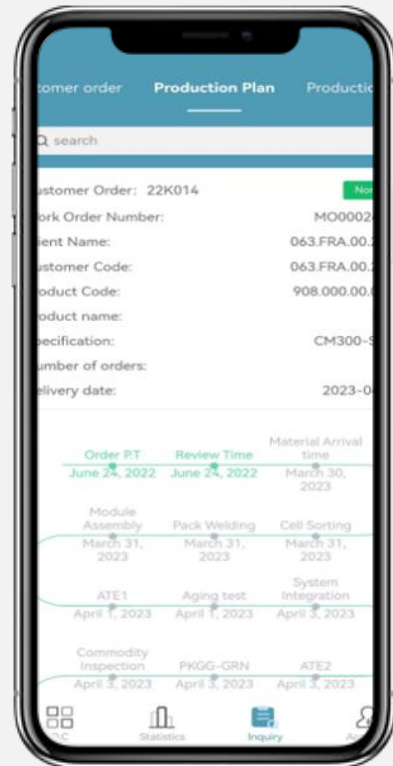
Production process informatization

02



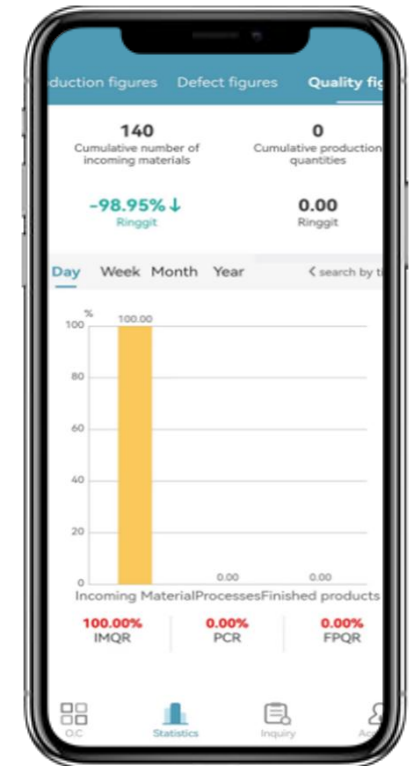
Improve product quality

03



Improve production efficiency

04



Product information traceability to reduce defective products

Manufacturer



Management

Real-time
Production



Productivity

40k modules per month
3GWh per year



Experience

More than 10 years

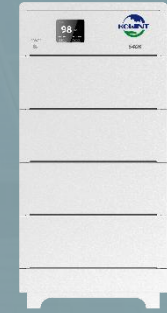


Standard

IATF 16949
ISO9001,ISO14001

INTELLIGENT FACTORY EQUIPMENTS

HESS LV



R5000

W5000

S40K

Nominal Energy

5.12 kWh

5.12 kWh

20.48kWh@4modulars

Rated Voltage

51.2 V

51.2 V

51.2V

Voltage Range

43.2~58.4 V

43.2~56.8V

47~56.8V

Net Weight(Approximate)

45±1kg/99.2lb

53 kg/116lb

203.54kg/545lb

Dimension (W*D*H)

440*420*132mm/17.3*16.5*5.2in

450*180*635mm/18.9*7*25in

635*268*1302mm/25*10.6*51.9in



HESS HV

Power Matrix



SYSTEM PARAMETER

48A

Max. Continuous Current

409.6V@4modulars

Nominal Voltage

254kg

560lb@4modular

Set Weight (Approximate)

20.48kWh@4modulars

Nominal Energy

345.6~467.2V

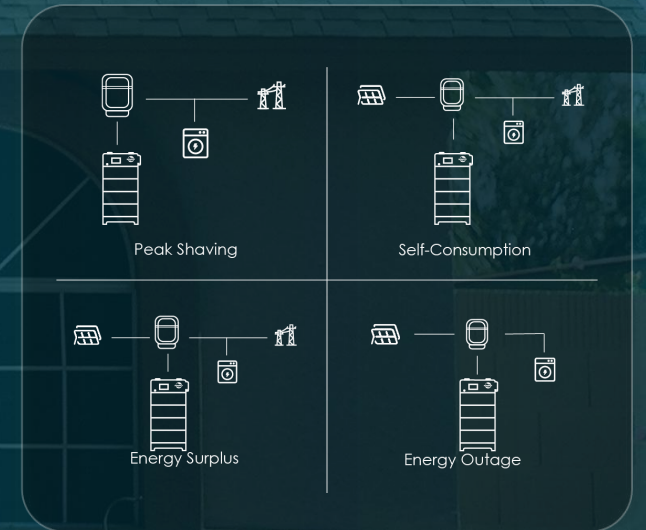
Max. Continuous Current

1400*678*268mm

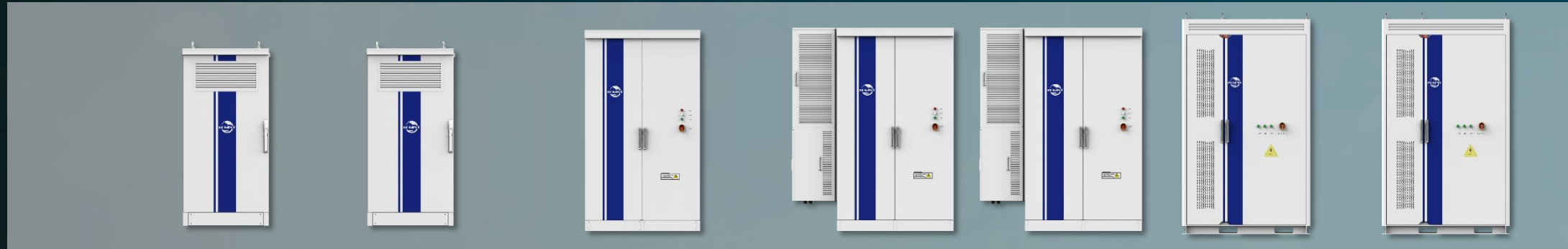
55*26.7*10.5in

Dimension (W*D*H)

SYSTEM LAYOUT

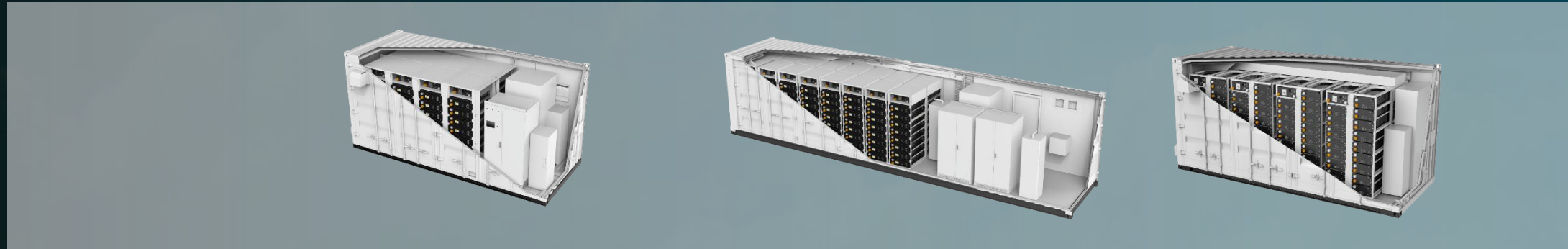


C&I ESS Solution



	KS 38D	KS 38A	KS 207B	KS 207A	KS 207D	KS 215A(EU)	KS 215A(US)
Rated Capacity	38 kWh	38.4 kWh	207.8 kWh	207.8 kWh	207.8 kWh	215 kWh	215 kWh
Charge/Discharge Current	0.5 C	≤ 0.8 C	≤ 0.5 C	≤ 0.8 C	0.5 C	0.5 C	0.5 C
Rated Voltage	384 V	384 V	742.4 V	742.4 V	742.4 V	768 V	768 V
Net Weight(Approximate)	520 KG	520 KG	2600 KG	3150 KG	3150 KG	3250 KG	3250 KG
Dimension (W*D*H)	645*780*1400 mm	645*780*1400 mm	1295*1030*2245 mm	1290*1030*2245 mm	1290*1030*2245 mm	1400*1300*2350 mm	1400*1300*2350 mm

C&I ESS Solution



P-Block 1720A

P-Block 3440A

P-Block 2437D

Rated Capacity

1720 kWh

3440 kWh

2437 kWh

Max Voltage Range

703.2~852 V

703.2~852 V

996.2~1207 V

Max Charge/Discharge Current(A)

280 A

280 A

280 A

Net Weight(Approximate)

19000 kg / 41887 lb

36000 kg / 79366 lb

27000 kg / 59525 lb

Dimension (W*D*H)

6052*2438*2896 mm /
238*96*114 in

12200*2438*2896 mm /
480*96*114 in

6052*2438*2896 mm /
238*96*114 in

High Energy Density Battery Cells



RF32

RF50

RF100

RF280

Rated Capacity	32Ah	50Ah	100Ah	280Ah
Rated Voltage	3.2V	3.2V	3.2V	3.2V
Max. Charge Rate	2C	2C	2C	1C
Internal Resistance	< 1.5mΩ	< 1mΩ	< 0.8mΩ	< 0.3mΩ
W*H*D(mm)	148*94.3*26.7 / 6*3.7*1 in	101.6*148*39.5 / 4*5.8*1.5 in	207*174.7*27.2 / 8.1*6.8*1 in	207*174.7*71 / 8.1*6.8*2.8 in

THANKS

THANKS

