

# 储能产品手册

Energy Storage Product Manual

级联型高压大容量储能技术的倡导者和引领者





Initiator and Pioneer of Cascaded High-voltage Large-capacity Energy Storage Technology





## Contents

|   |    |
|---|----|
| ● | 02 |
| ● | 03 |
| ● | 04 |
| ● |    |
| ● | 07 |
| ● | 10 |
| ● | 15 |
| ● | 18 |
| ● |    |
| ● | 21 |
| ● | 26 |
| ● | 30 |





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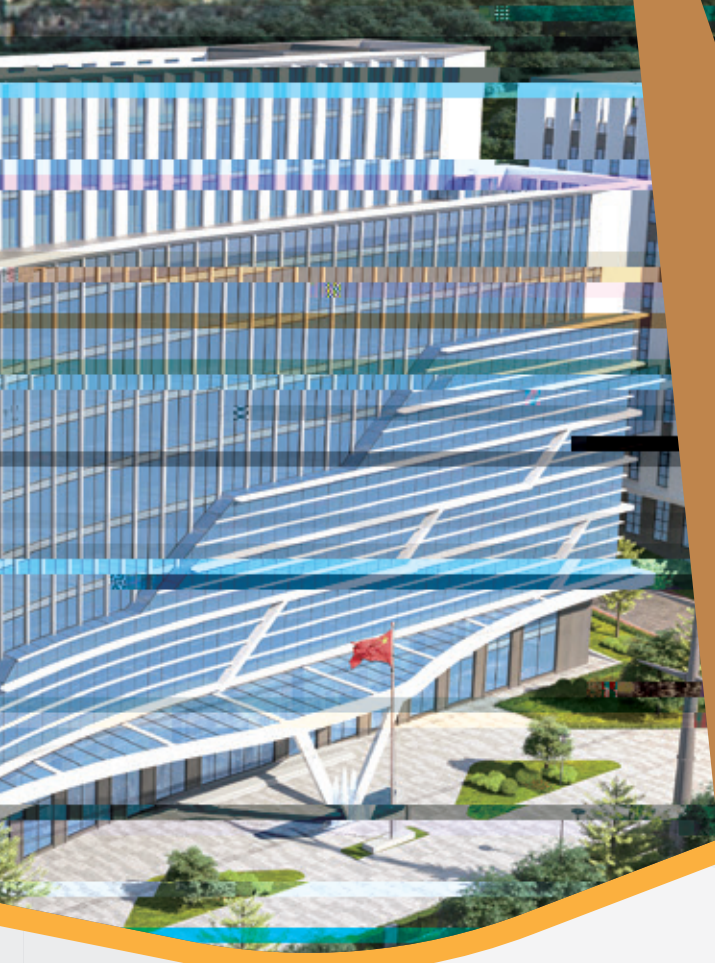
002169

PCS BMS EMS DMS CMS PACK

70%

20





26<sup>+</sup>

100<sup>+</sup>



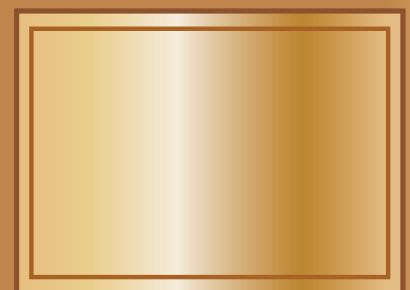
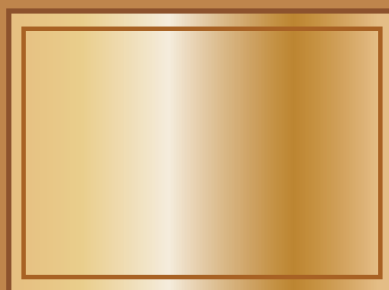
**级联型高压大容量储能技术**  
国家工业和信息化部节能降碳技术装备推荐

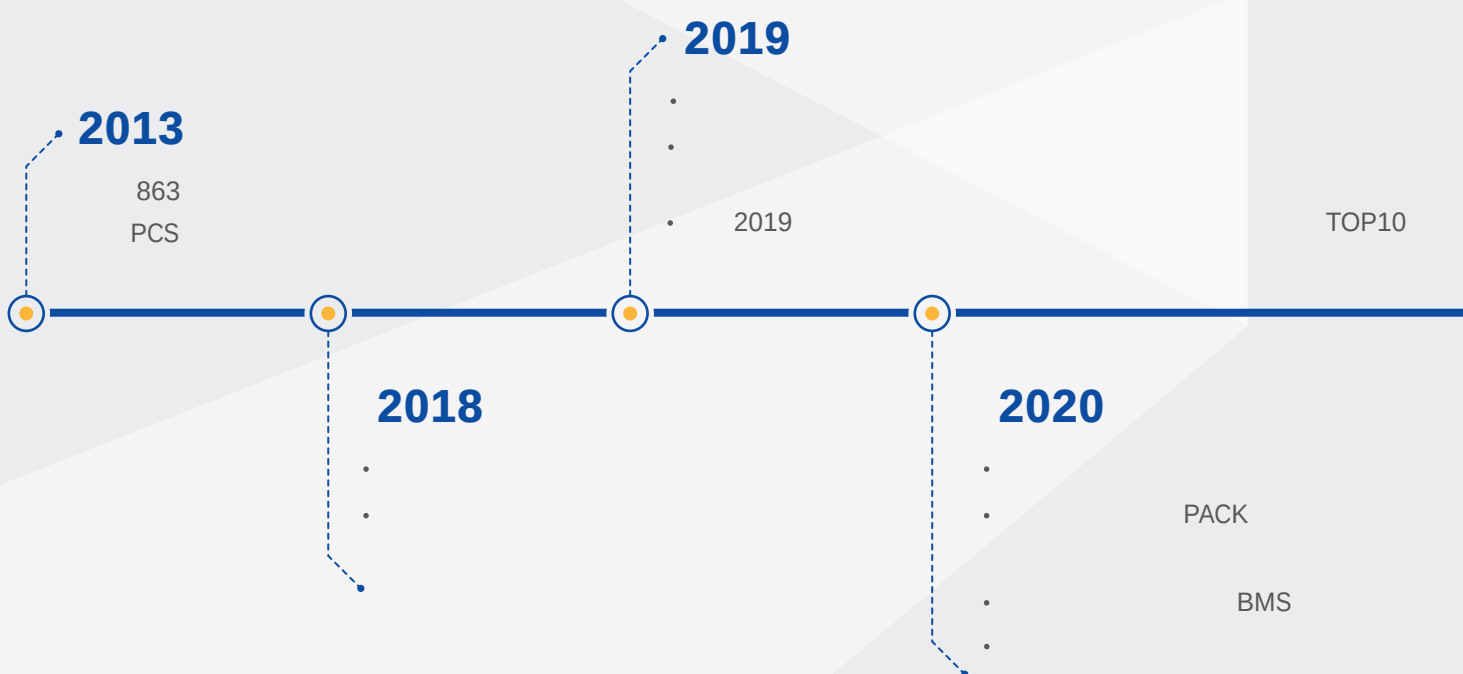
工业和信息化部  
二〇二四年五月



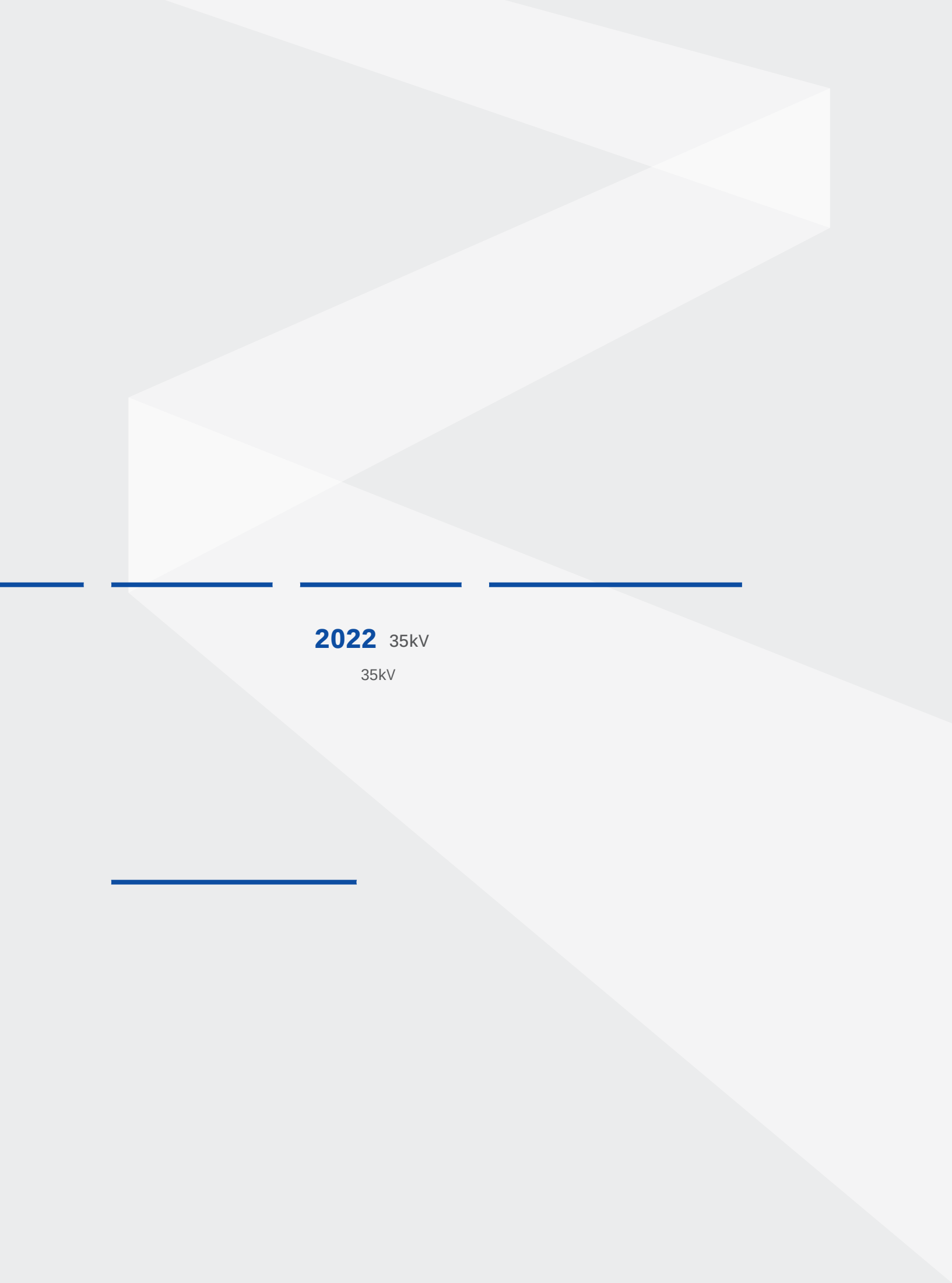
**专精特新中小企业**

2023 1 18 -2026 1 17









**2022** 35kV  
35kV









|  |     | 35kV     | 690V( ) | 35kV  |
|--|-----|----------|---------|-------|
|  |     | 25MW     | 5MW     | 5     |
|  |     |          |         | 2%    |
|  |     |          |         |       |
|  |     | 5ms      | 50ms    |       |
|  |     | ≥ 92%    | 80~85%  | 6-10% |
|  |     |          |         | 6-7%  |
|  | QMA | ≤ 2%     | ≤ 5%    |       |
|  |     |          |         |       |
|  |     |          |         |       |
|  |     |          |         |       |
|  | ! ! |          |         |       |
|  |     | 1.1~20   | 3       |       |
|  |     | 0.1pu    | 0.3pu   |       |
|  |     | 0-2000Hz | 0-200Hz |       |
|  |     |          |         |       |



|     |                                                                   |
|-----|-------------------------------------------------------------------|
|     |                                                                   |
|     | XEA+13CQQ+03K U-3. K U f+J                                        |
|     |                                                                   |
|     | 1Ô3. Ô /N114Q                                                     |
|     | F                                                                 |
|     | 03KU                                                              |
|     | 3. K U f                                                          |
| ( ( | 4( / .0..(113.(11.. k k)1( //0..(113.(11.. k k                    |
|     | 4(30r)1(36r                                                       |
|     |                                                                   |
|     | +2.,  )23,                                                        |
|     | .  73#                                                            |
|     | 2... k 0... k                                                     |
|     | GN32 GN44                                                         |
|     | N?A I ) ) )                                                       |
|     | Kmb`sq RAN GCA/ .2 GCA4/63.                                       |
|     | E@-R 14054 E@-R 12/0. E@-R 12/11 E@-R 12/1/ E@-R 14325 E@-R 14326 |
|     |                                                                   |
|     | JDN 1,0T-1/2?f                                                    |
|     |                                                                   |
|     | /N26Q                                                             |
|     | /N114Q                                                            |
|     | .,3N                                                              |
|     | 115,4/1i U f                                                      |
|     | / .53,0T                                                          |
|     | 72.,6 /004,2T                                                     |
| ( ( | / .4.(7..(040. k k                                                |
|     | 066. ie                                                           |
| NAQ |                                                                   |
|     | XEA+13NAQ+03K U+J                                                 |
|     | 03KU                                                              |
|     | 53KU                                                              |
|     | :0#& '                                                            |
|     | .,3# G I                                                          |
|     | 13iT                                                              |
|     | 1/,3iT 16,3iT                                                     |
|     | /015?                                                             |
|     | <.,77& '                                                          |
|     | +//. #  //. #                                                     |
|     | 3. Fx                                                             |
|     | 23Fx 33Fx                                                         |
|     | /3. !                                                             |
|     | 13iT                                                              |
|     | 3 k q                                                             |
|     | 77#                                                               |



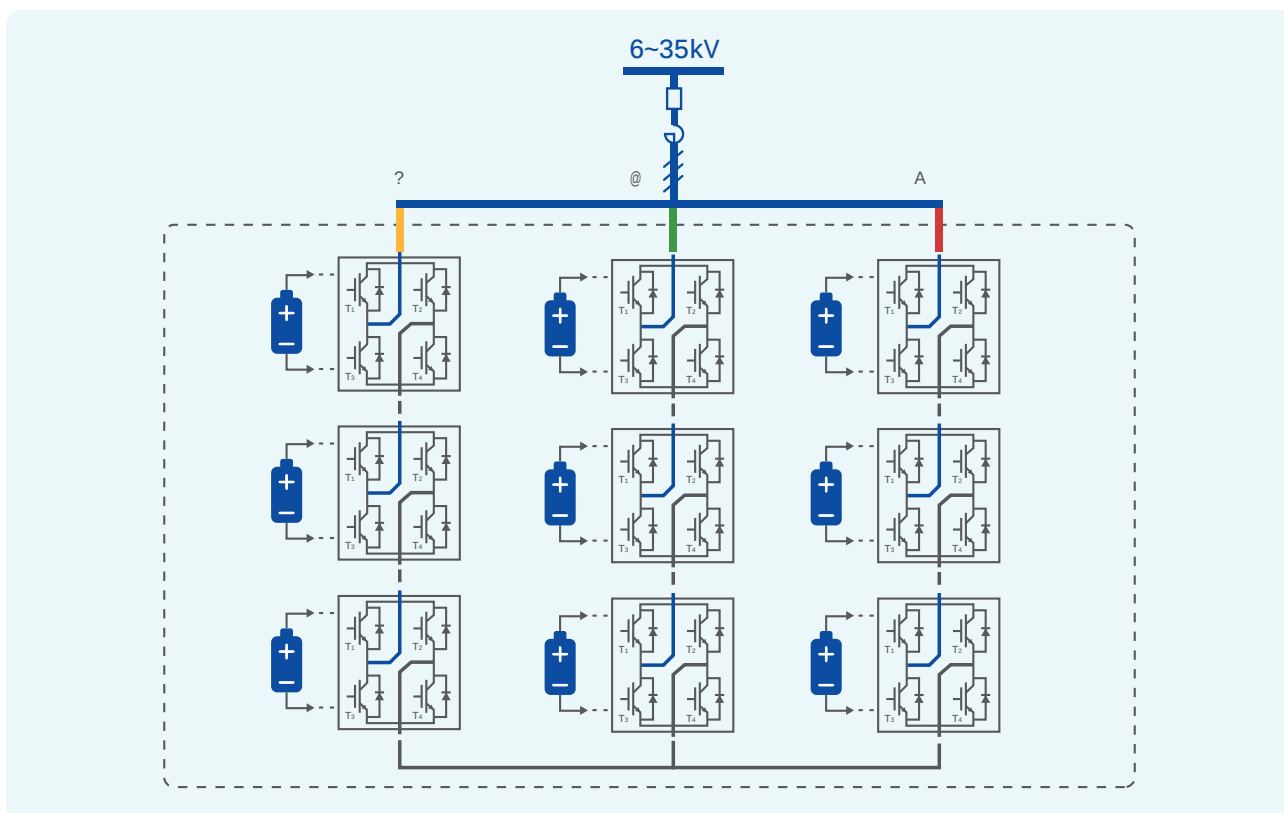


6kV~35kV

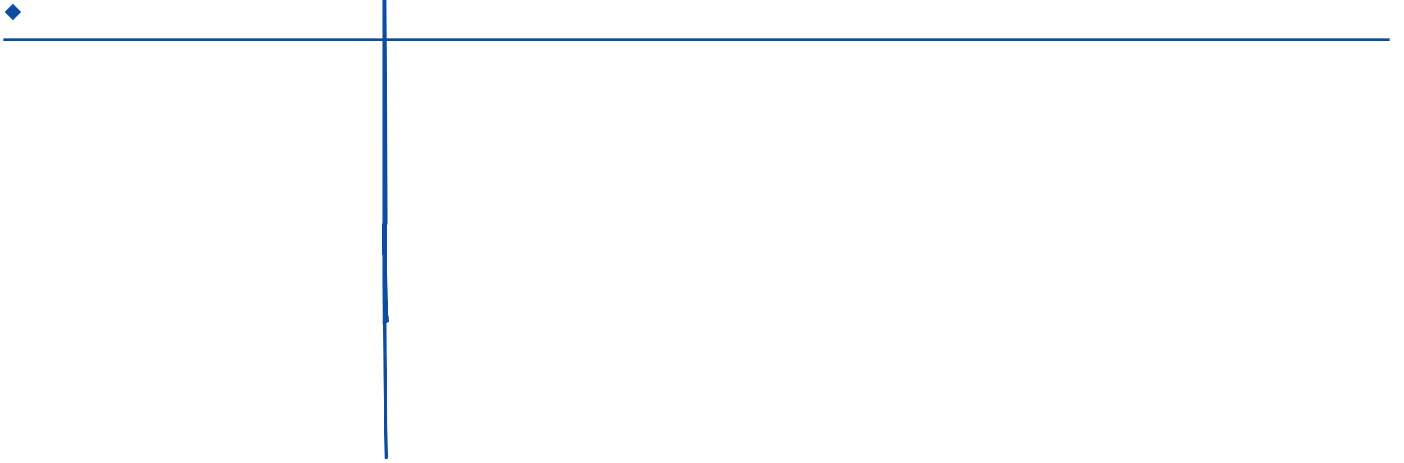
PCS BMS

EMS

2



2





3

35kV 0.5P

|     | XEA+13CQQ+03K U-3.K U f+J                                         |
|-----|-------------------------------------------------------------------|
|     |                                                                   |
|     | 1Ô3.Ô /N114Q                                                      |
|     | F                                                                 |
|     | 03K U                                                             |
|     | 3.K U f                                                           |
| ( ( | 4( /.0..(113.(11.. k k)1( //0..(113.(11.. k k                     |
|     | 4(30r)1(36r                                                       |
|     |                                                                   |
|     | +2.,  )23,                                                        |
|     | .  73#                                                            |
|     | 2... k 0... k                                                     |
|     | GN32 GN44                                                         |
|     | N?A I ) ) )                                                       |
|     | Kmb`sq RAN ĞCA/ .2 ĞCA4/63.                                       |
|     | E@-R 14054 E@-R 12/0. E@-R 12/11 E@-R 12/1/ E@-R 14325 E@-R 14326 |

|     | JDN 1,0T-1/2? f    |
|-----|--------------------|
|     |                    |
|     | /N26Q              |
|     | /N114Q             |
|     | .,3N               |
|     | 115,4/1i U f       |
|     | / .53,0T           |
|     | 72.,6 /004,2T      |
| ( ( | / .4.(7..(040. k k |
|     | 066. ie            |
| NAQ |                    |
|     | XEA+13NAQ+03K U+J  |
|     | 03K U              |
|     | :0#& '             |
|     | .,3# 6I            |
|     | 13iT               |
|     | 1/,3iT 16,3iT      |
|     | /015?              |
|     | <.,77& '           |
|     | +//. #  //. #      |
|     | 3.Fx               |
|     | 23Fx 33Fx          |
|     | /3. !              |
|     | 13iT               |
|     | 3 k q              |
|     | 77#                |

35kV(0.25P)

|     | XEA+13CQQ+03K U-/.. K U f+J                     |
|-----|-------------------------------------------------|
|     |                                                 |
|     | 1Ô3. Ô /N114Q                                   |
|     | F                                               |
|     | 03K U                                           |
|     | /.. K U f                                       |
| ( ( | /0( / .0..(113.(11.. k k)4( //0..(113.(11.. k k |
|     | /0(30r)4(36r                                    |
|     |                                                 |
|     | +2.,  )23,                                      |



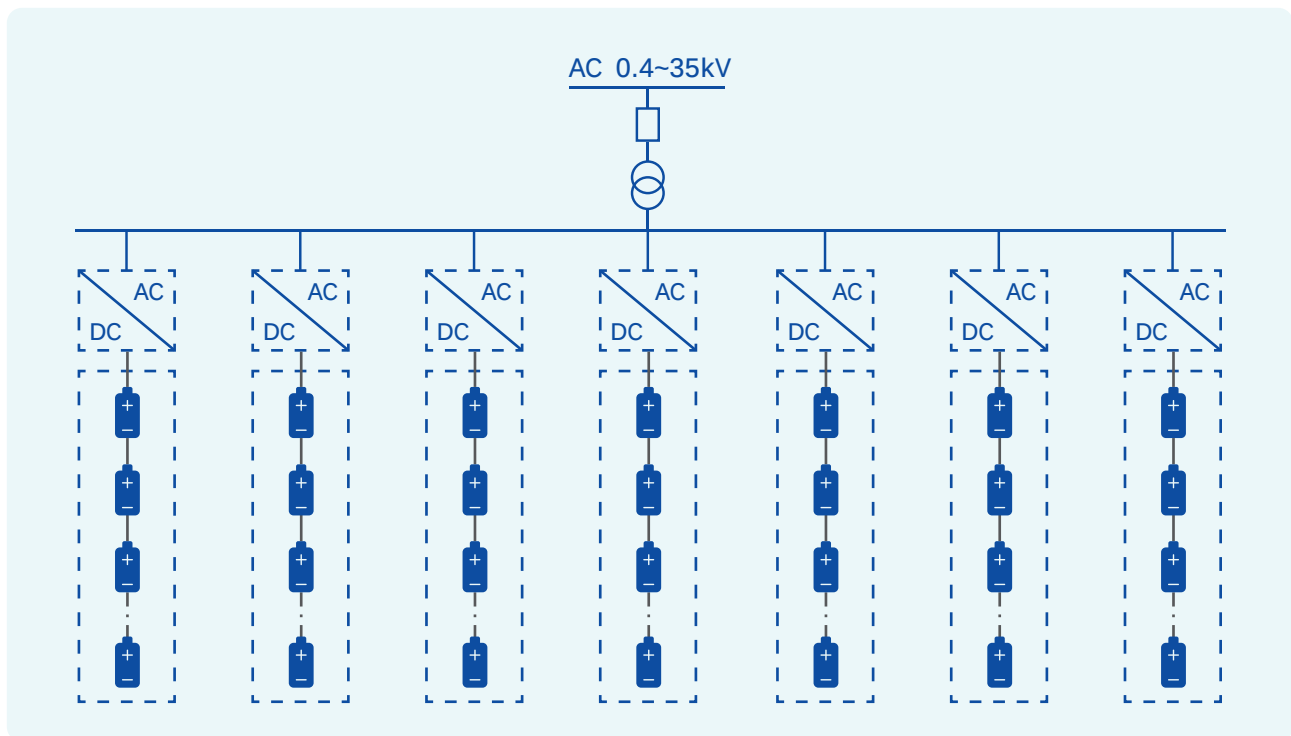
|     |                                                                   |
|-----|-------------------------------------------------------------------|
|     | . 73#                                                             |
|     | 2...k 0...k                                                       |
|     | GN32GN44                                                          |
|     | N?AI ) ) )                                                        |
|     | Kmb`sqRAN GCA/.2 GCA4/63.                                         |
|     | E@-R 14054 E@-R 12/0. E@-R 12/11 E@-R 12/1/ E@-R 14325 E@-R 14326 |
|     | JDN 1,0T-1/2?f                                                    |
|     | /N26Q                                                             |
|     | /N114Q                                                            |
|     | .,03N                                                             |
|     | 115,4/1iUf(0                                                      |
|     | / .53,0T                                                          |
|     | 72.,6 /004,2T                                                     |
| ( ( | / .4.(7..(040. k k                                                |
|     | 066. ie                                                           |
| NAQ | XEA+13NAQ+03K U+J                                                 |
|     | 03KU                                                              |
|     | :0#& '                                                            |
|     | .,3# GI                                                           |
|     | 13iT                                                              |
|     | 1/,3iT 16,3iT                                                     |
|     | /015?                                                             |
|     | <.,77& '                                                          |
|     | +//. #  //. #                                                     |
|     | 3. Fx                                                             |
|     | 23Fx 33Fx                                                         |
|     | /3. !                                                             |
|     | 13iT                                                              |
|     | 3 kq                                                              |
|     | 77#                                                               |



PCS

PCS

4



4



IP54



/ ,1500V



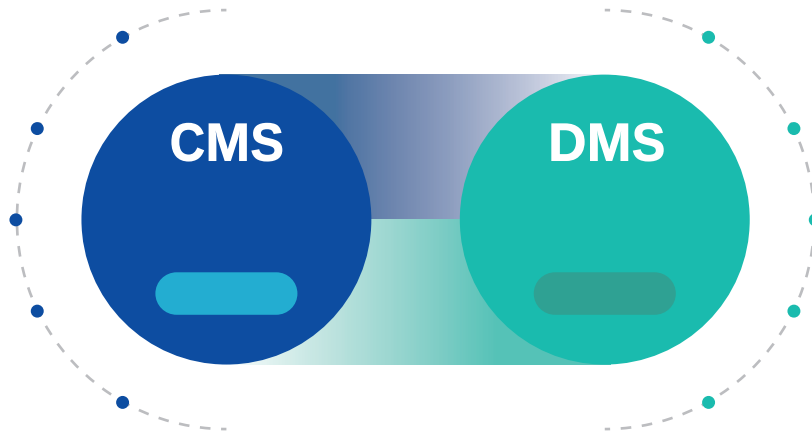
5MW/10MWh

|     | 1/2? f             |
|-----|--------------------|
|     | /N30Q              |
|     | /N2/4Q             |
|     | .,3N               |
|     | 2/5,77 i U f       |
|     | /11/,0T            |
|     | //42,6 /3/6,2T     |
|     |                    |
|     | 3./3 i U f         |
|     |                    |
|     | GN32               |
|     | GN44               |
| ( ( | 403.(033.(0674 k k |
|     | 23r                |
|     | N?A I ) ) )        |
| NAQ |                    |
|     | 53.T               |
|     | 02 (0/3 i U        |
|     | /44?               |
|     | 03 k q             |
|     | 77 #               |
|     | 0. k q             |
|     | 3. k q             |
| ( ( | 64..(10..(1... k k |
|     | 02r                |
|     | GN44               |



|     |                                  | XEK+.,2CQQ+/03i U-011i U f+J  |
|-----|----------------------------------|-------------------------------|
|     |                                  | XEK+.,2CQQ+/03i U-04/ i U f+J |
|     |                                  | 06.? f                        |
|     |                                  | 1/2?f                         |
|     |                                  | /N04.Q                        |
|     |                                  | /0,0i?                        |
|     |                                  | /2.?-/35?                     |
|     |                                  | /4.? / -/55?                  |
|     |                                  | 010,7i U f-04/,0i U f         |
|     |                                  | 506 727T BA                   |
|     |                                  | 610T BA                       |
|     | & ( ( ' / / . . Ô /22. Ô052. k k |                               |
|     |                                  | 06.. ie                       |
|     | GN                               | GN43                          |
|     |                                  | GN33                          |
|     |                                  | Kmb`sq RAN                    |
| NAQ |                                  |                               |
|     |                                  | XEK+.,2NAQ+/03i U+J           |
|     |                                  | /03i U                        |
|     |                                  | 2..T                          |
|     |                                  | /6. 0/5?                      |
|     |                                  | 77#                           |
|     |                                  | 0. k q                        |
|     |                                  | 3. k q                        |
|     |                                  | 3... k 0... k                 |
|     |                                  | GN43                          |
|     |                                  | 5..(03.(4.. k k               |
|     |                                  | 53ie                          |
|     |                                  | 33. φ 73.TBA                  |





#### ◆ CMS

-



AI

#### ◆ DMS

-



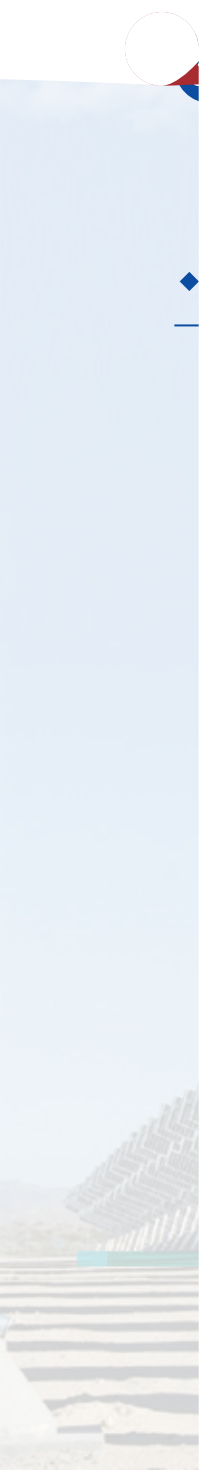
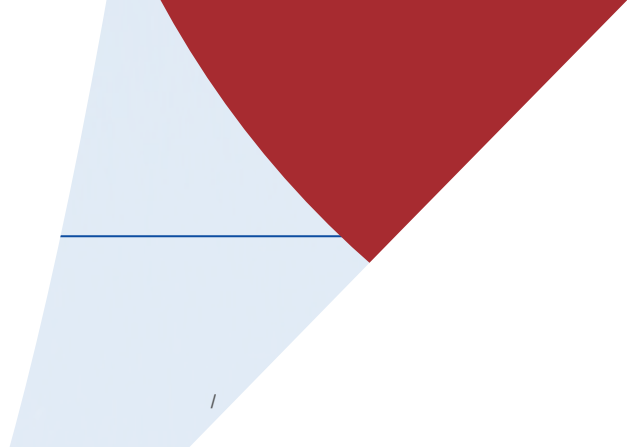
5 CMS

-



6 DMS

-









◎ 电源侧

9MW/4.5MWh







◎ 电源侧

60MW/60MWh



?EA



◎ 电源侧

20MW/20MWh



!

!





◎ 电源侧

30MW/30MWh



◎ 电源侧

20MW/10MWh



?EA



◆



◎ 电源侧

150MW/600MWh



13iT



!

!



◎ 电源侧



13iT



)

!





● 电源侧 20MW/40MWh  
 ☰ 13iT ☑ ! ! !



● 电源侧 22.5MW/90MWh  
 ☰ ☑ ! !



◆



◎ 电网侧

28.97MW/100MWh



! ! !





● 电网侧

200MW/400MWh



EU



!



● 电网侧

100MW/200MWh



!

!

!





● 电网侧

100MW/200MWh



/..KU



! ! !



● 电网侧

100MW/200MWh



! ! !





● 电网侧

208MW/416MWh



! ! !



● 电网侧

100MW/200MWh



! !





◎ 用户侧

91.5MW/366MWh

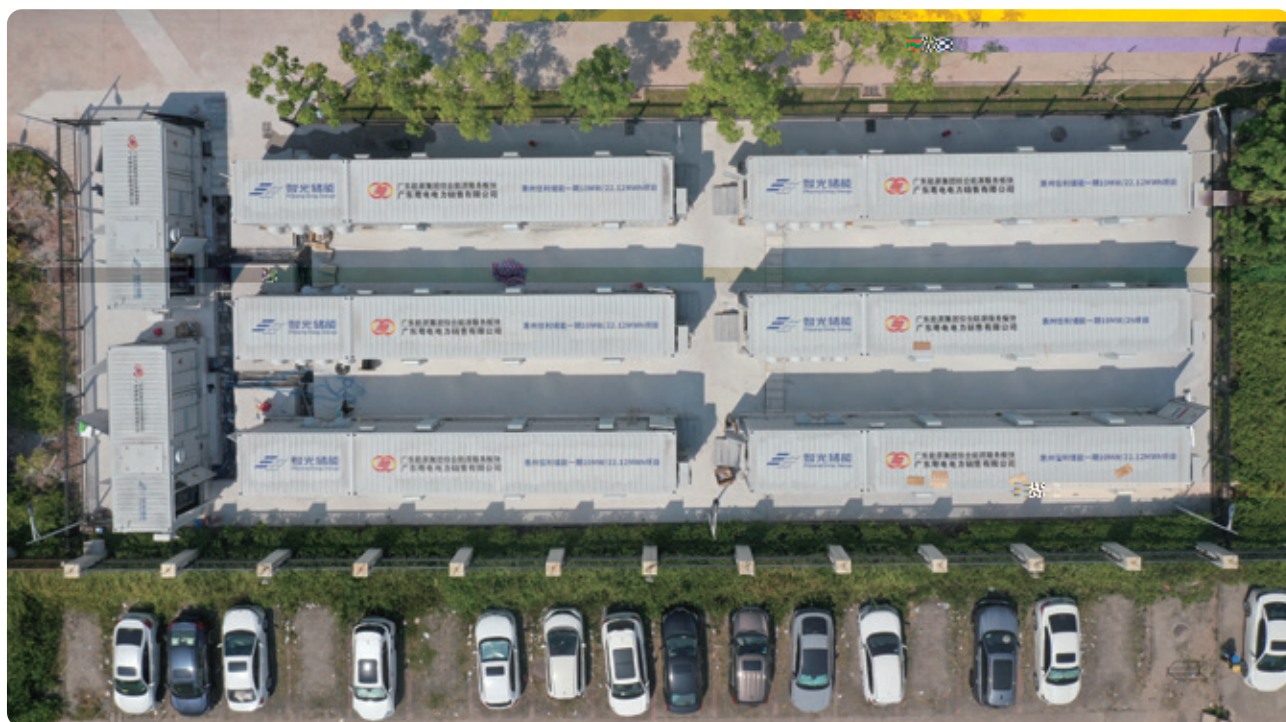


13iT



! ! !





● 用户侧

10MW/22.12MWh



● 用户侧

10MW/20MWh



# 储能全生命周期价值挖掘专家







24小时客户服务中心:400-8800-233  
24h Service:400-8800-233



智光  
Zhiguang

股票代码  
002169

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2025