智光储能 Zhiguang Energy Storage | 智光电气：002169

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
储能
链节
舱
储能
链节
舱

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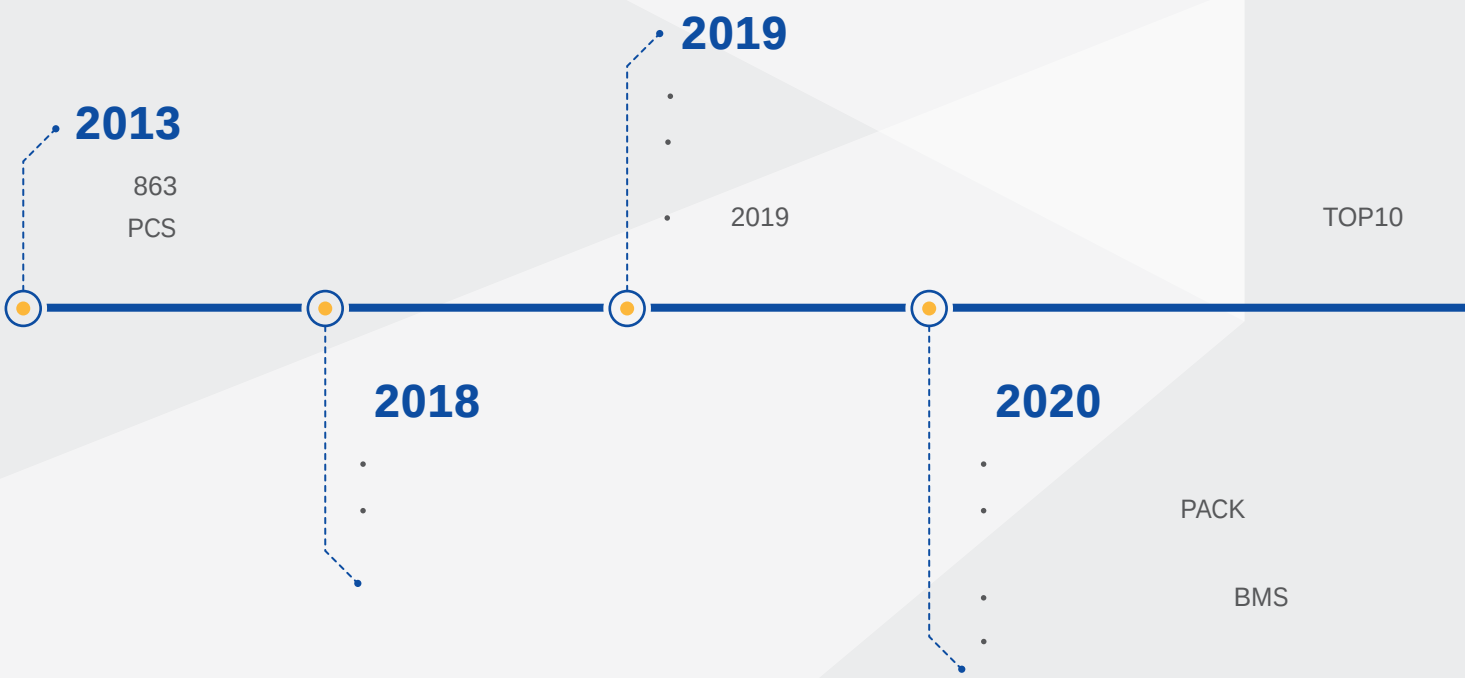
002169

PCS BMS EMS DMS CMS PACK

70% 20


2013
863
PCS
2018
2019
2019
TOP10
2020
PACK
BMS

2021

- 2020
- “ ”
- “ ”

2022 35kV

- 35kV

2023 12GWh

- 100MW/200MWh
- 100MW
- 10GWh
- PACK
- 3GW/5GWh

智光储能
Zhiguang Energy Storage

智光储能

◆

		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	

◆

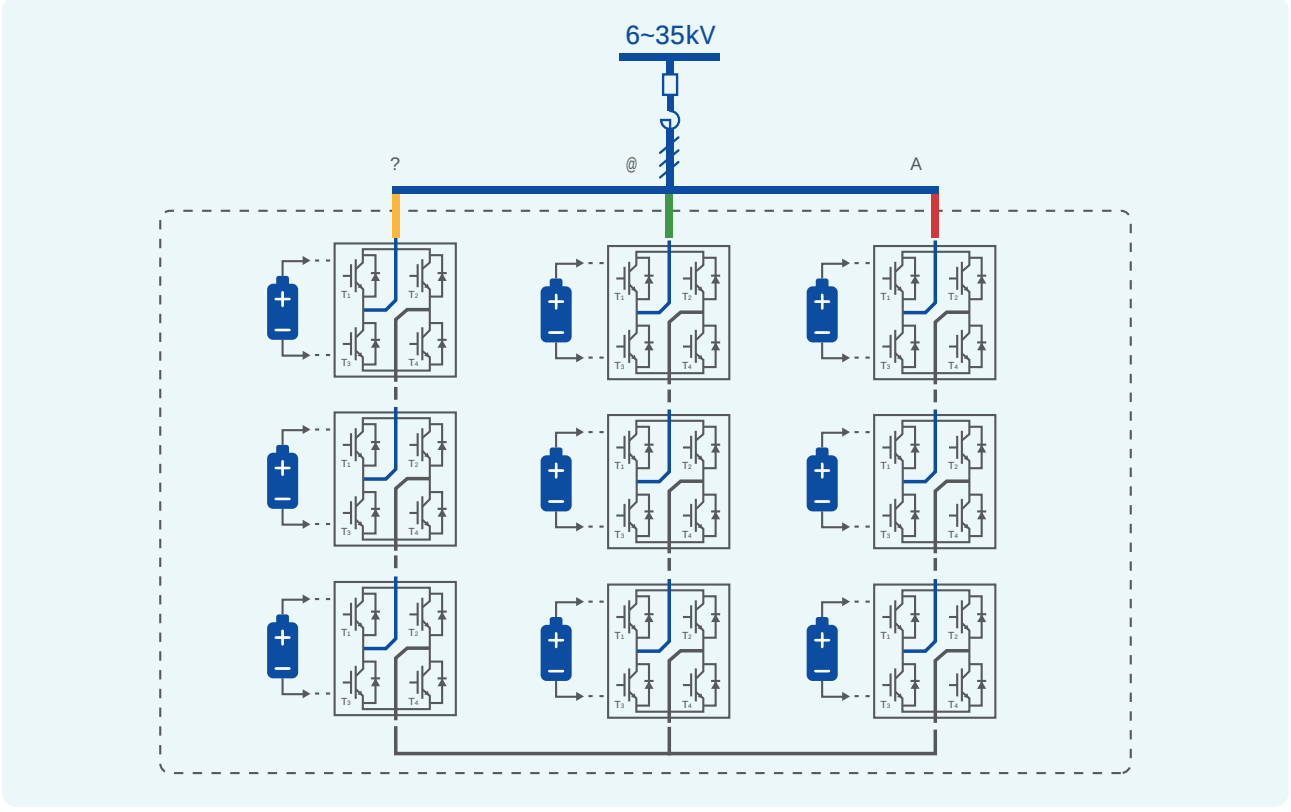
35kV

	XEA+13CQQ+03KU-3.KUf+J
	1Ô3.Ô/N114Q
	F
	03KU
	3.KUf
((	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?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
	.,3N
	115,4/1iUf
	/.53,0T
	72.,6|/004,2T
((	/.4.(7..(040.kk
	066.ie
NAQ	
	XEA+13NAQ+03KU+J
	03KU
	53KU
	:0#& '
	.,3#ℊI
	13iT
	1/,3iT|16,3iT
	/015?
	<.,77& '
	+//.#|//.#
	3.Fx
	23Fx|33Fx
	/3. !
	13iT
	3kq
	77#

6kV~35kV

PCS BMS

EMS 2



2

单机容量 **100MW/200MWh**

占地面积 **20%**

安装调试周期 **25%**

可在 **/ /** 环境下可靠并网运行

百兆瓦功率支撑

接入 35kV电网

转换效率 **≥ 92%**

监测与调度

电池电流

-40°C-45 极宽温域可稳定运行

3

35kV 0.5P

	XEA+13CQQ+03KU-3.KUf+J
	1Ô3.Ô/N114Q
	F
	03KU
	3.KUf
((	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?AI)))
	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
	115,4/1iUf
	/.53,0T
	72.,6|/004,2T
((	/.4.(7..(040.kk
	066.ie
NAQ	
	XEA+13NAQ+03KU+J
	03KU
	:0#& '
	.,3#Gl
	13iT
	1/,3iT|16,3iT
	/015?
	<.,77& '
	+//.#|//.#
	3.Fx
	23Fx|33Fx
	/3. !
	13iT
	3kq
	77#

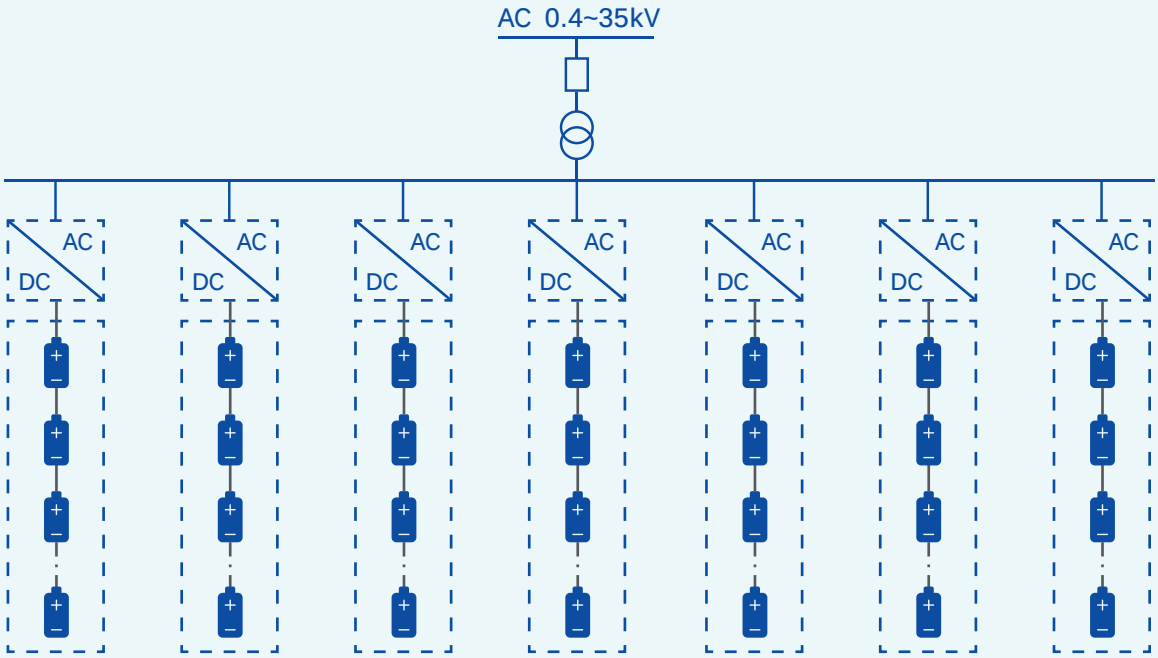
35kV(0.25P)

	XEA+13CQQ+03KU-/..KUf+J
	1Ô3.Ô/N114Q
	F
	03KU
	/..KUf
((	/0(/.0..(113.(11.. kk)4(//0..(113.(11.. kk
	/0(30r)4(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
	.,03N
	115,4/1iUf(0
	/.53,0T
	72.,6|/004,2T
((	/.4.(7..(040.kk
	066.ie
NAQ	
	XEA+13NAQ+03KU+J
	03KU
	:0#& '
	.,3#Gl
	13iT
	1/,3iT|16,3iT
	/015?
	<.,77& '
	+//.#|//.#
	3.Fx
	23Fx|33Fx
	/3. !
	13iT
	3kq
	77#

PCS PCS

4



4

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. IP54

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. / ,1500V

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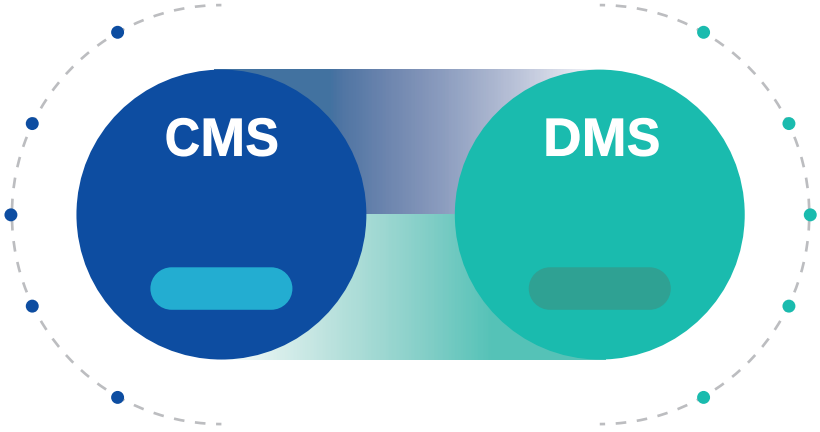
5MW/10MWh

	1/2?f
	/N30Q
	/N2/4Q
	.,3N
	2/5,77iUf
	/11/,0T
	//42,6|/3/6,2T
	3./3iUf
	ℊN32 ℊN44
((	403.(033.(0674kk
	23r
	N?AI)))
NAQ	
	53.T
	02 (0/3iU
	/44?
	03kq
	77#
	0.kq
	3.kq
((	64..(10..(1...kk
	02r
	ℊN44

		XEK+.,2CQQ+/03iU-011iUf+J	XEK+.,2CQQ+/03iU-04/iUf+J
		06.?f	1/2?f
		/N04.Q	
		/0,0i?	
		/2.?-/35?	
		/4.? / -/55?	
		010,7iUf-04/,0iUf	
		506|727T BA	
		610T BA	
	& (('	//..Ô/22.Ô052.kk	
		06..ie	
	GN	GN43	
		GN33	
		Kmb`sqRAN	
NAQ			
		XEK+.,2NAQ+/03iU+J	
		/03iU	
		2..T	
		/6.|0/5?	
		77#	
		0.kq	
		3.kq	
		3...k 0...k	
		GN43	
		5..(03.(4..kk	
		53ie	
		33.φ73.TBA	



AI

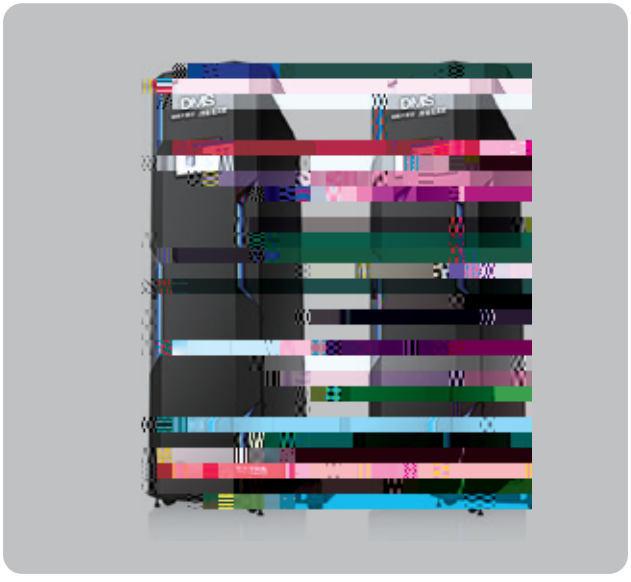
CMS -

- AI

DMS -

-

5 CMS -



6 DMS -

CMS

PCS

/

AI

/ /

DMS

&IOT

BI

IOT

&

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

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

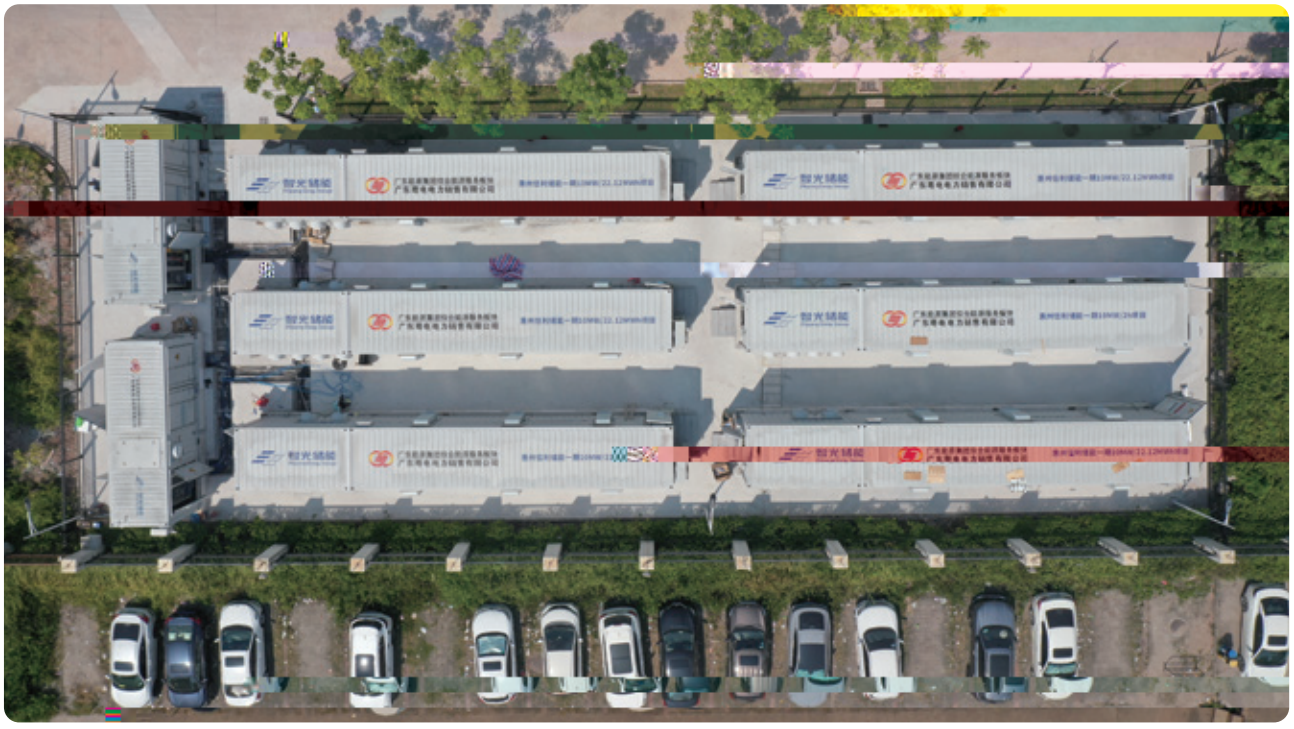
! ! !

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**

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