

CONTENTS

01

Am k n_ l w G l r p m b s a r g m l

.1

02

U_r c p C j c a r p m j w q g q F w b p m e c l
N p m b s a r g m l Q w q r c k Q m j s r g m l q

.2+ .4

03

N m u c p Q s n n j w D m p
F w b p m e c l N p m b s a r g m l

.5+ / 2

04

G l rcjjgec l r Fwbpmec l C l cpew
K _ l _ ec k c l r Qwqrc k

05

Fwbpmec l Am k npcqqmp

06

Wolong Group - Profile

/762

NAQ

Umjmle* dmsl bcb gl /762 _lb fc_bos_prcpcb gl Qf_mvgle* Xfchg_le Npmtglac* qq _ejm`\_j jc\_bgle glbsqrpg\_j clrcpnpgqc am k kgrrcb rm npmtgbgle q\_dc\* cddgagcl r\* qk\_pr \_lb epcc l nmucp bpgtc qwqrc k qmjsrgm lq ugrf jgdc+jmle qsnmprgle qcptgacq rm ejm`_j sqcpq,

Qglac rfc /2rf Dgtc+Wc_p Nj_l* rfc am kn_lw f_q dmasqcb ml rfc j_wmsr _lb bctcjm nkc l r md fwbpmecl qrmpec`w qm spac lcrumpi\*\_lb f\_q npmb sarq \_lb rcaf lmjmeqcq gl nmucp rp\_lq dmp k cp\* nfmrm tmjr\_ga\* jc\_b+\_agb \_lb jgrfgs k`_rrcpgcq* clcpew qrmpec NAQ* fwbpmecl nmucp qsnnjw*_lb jgefr qrmpec nphicarq,

Wolong Electric Group Organization Structure



Water Electrolysis Hydrogen Production System Solutions

Thyristor Hydrogen Production Power Supply Solution



电网

- Application Scene

QTE

Gr gq k_gljw_nnjga_`jc rm fwbpmecl npmbssargml qac l\_pgmq ugrf emmb ?A nmucp epqb am l bgrgm lq, Gr a\_l `c sqcb ugrf Umjml e QTE nmucp epqb emtcp l_lac cosgn k clr,

- Technical Features

K_rspc rca f l mjew,

QTE

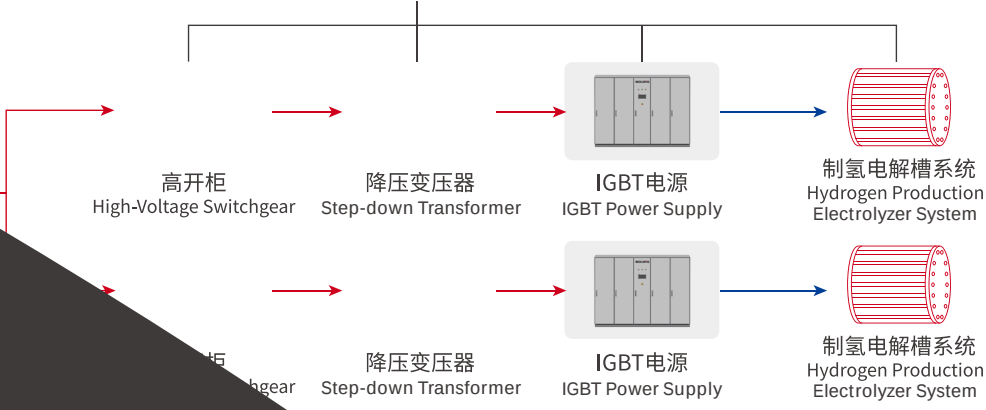
Rfc nmucp d_arp md rfwpgqrm nmucp qsnjw gq jmu*_l b gr lccbq rm `c sqcb ugrf QTE,

G l a_qc md jgef r jm_b mp nmucp sars_rgm l* rfc epqb qgbc f_p k m l gaq _pc j_pec,

Rfc bwl _k ga pcqnm l qc qnccb gq qjmu _l b a_l lmr dmjjmu rfc lcu clcpew nmucp sars_rgm lq ucjj,

IGBT

IGBT Power Supply For Hydrogen Production Solution



mucp sars_rgm lq md rfc lcu clcpew epqb*
f c cjc arpmjwxcp mncp_rgm l c agclaw gq

lcu clcpew,

lb

▼ IGBT + IGBT Power Supply For Hydrogen Production+Thyristor Power Supply For Hydrogen Production Solution

GE@R

GI j_pec+qa_jc lcu clcpew fwbpmecl npmbpargml qr_rgm lq* rfc `cqr amqr ncpdmp k\_lac a\_l `c _afgctcb rfpmsef rfc
k gvg l e md GE@R nmucp qsnnjw dmp fwbpmecl npmbpargml _l b Rfwpgqrm p nmucp qsnnjw dmp fwbpmecl npmbpargml,

Power Supply For Hydrogen Production

IGBT IGBT Power Supply For Hydrogen Production

Features			
GE@R	NUK	BA+BA	?bmnr GE@R* NUK pcarg a_rgmI _Ib k sjrgnjc BA+BA rcaf l mjmeqcg, Gr f_q rfc dSlargmI md pc_argtc am knclq_rgmI,
A?L PQ263			Cosgnncb ugrf Crfcplcr* A?L* PQ263* _I_jme* bgegr_j tmjs k c glrcpd_ac,
			? fc_jrf k _I _eckclrqwqrc k ugrf cosgn kclr,
GN			?bmnr u_rcp+ammjcb bcqgel* ugrf fgef GN jctcj _Ib fgef pcjg_`gjgrw,
			Kmbsj_p bcqgel* n_p_jjcj cvn_lqgmI nmucp,
.,77 :1#			Fgef nmucp d_arp .,77 * jmu f_p k m lga m l rfc epqb qgbc 1# *
4. kq			d_qr bwl _k ga pcqnm lqc 4. kq ,
.,3#			Qk_jj msrnsr tmjr_ec _Ib asppclr pgnnjc .,3# Rfc cjcarmjwxcpg mnccp_rgmI c agclaw gq fgef,
			Rfc epqb qgbc rp_lqdm p k cp bmcq lmr lccb nf_qc qfgdr _Ib ml+jm_b tmjr_ec pcesj_rgle qugraf,
Options			
/03.///2...iU			MnrgmI_j nmucp p_lec8/03.///2...iU
- 13iT-/ .iT 3.Fx-4.Fx			P_rcbg lnsr tmjr_ec-dpcosclaw813iT-/ .iT3.Fx-4.Fx&AmI esp_`jc
.T+60.T			P_rcb msrnsr tmjr_ec8 .T+60.T &Qcrr_`jc
.+0....?			P_rcb BA asppclr8 .+0....?

Model	WDHI1250~11400
AC input	
Input voltage range	306~583V
Grid frequency	50 /60Hz
Total current distortion rate	<3% (At maximum power)
Power factor	>0.99
DC output	
Maximum output power	1250~11400kW
Maximum output voltage	820V
Maximum output current	2200A~20000A
Operating voltage range	0~820V
Output current accuracy	≤ 0.5% (Maximum output current)
Output Current Ripple	≤ 0.5%
Dynamic response time	<60ms
Output control mode	Voltage /current /power control
Protect	
Reactive compensation function	possess
identify AC phase sequence	possess
Linkage fault protection	possess
AC insulation test	possess
General parameters	
Communication interface	CAN,RS85,Ethernet
Cooling Method	water cooling
Protection grade	IP54
Operating temperature range	-30 ~+60

IGBT

High-frequency Isolated IGBT Power Supply For Hydrogen Production

Features	
	Qr_l b_pb k mbsj_p bcqge l gq a m l t c l g c l r d m p n p m b s a r g m l _ l b k _ g l r c l _ l a c ,
	@s g j r g l f g e f + d p c o s c l a w g q m j _ r g m l * g r a _ l ` c b g p c a r j w a m l l c a r c b r m r f c e p g b * u g r f q k _ j j q g x c _ l b f g e f n m u c p b c l q g r w ,
	U g b c t m j r _ e c _ b _ n r _ r g m l p _ l e c * _ n n j g a _ ` j c r m t _ p g m s q t m j r _ e c j c t c j q ,
Options	
4 . + / 0 . . i U	M n r g m l _ j n m u c p p _ l e c 4 . + / 0 . . i U
- 16 . T - 00 . T 3 . F x - 4 . F x	P _ r c b g l n s r t m j r _ e c - d p c o s c l a w 16 . T - 00 . T 3 . F x - 4 . F x & Q c r r _ ` j c
. T + 1 . . T	P _ r c b m s r n s r t m j r _ e c . T + 1 . . T & Q c r r _ ` j c
. + 3 . . . ?	P _ r c b B A a s p p c l r . + 3 . . . ?

Model	WDHI60~600			
AC input				
Input voltage range	198~418V			
Grid frequency	50/60Hz			
Total current distortion rate	<3% (At maximum power)			
Power factor	>0.99			
DC output				
Maximum output power	600kW(to 1200kW)	1200kW)	Parallel power extension	
Maximum output voltage	300V			
Maximum output current	5000A(to 10000A	10000A)	Parallel power extension	
Operating voltage range	0~300V			
Output current accuracy	≤ 0.5% (Maximum output current)			
Output Current Ripple	≤ 0.5%			
Dynamic response time	<20ms			
Output control mode	Voltage /current /power control			
Protect				
Reactive compensation function	possess			
identify AC phase sequence	possess			
Linkage fault protection	possess			
AC insulation test	possess			
General parameters				
Communication interface	CAN,RS85,Ethernet			
Cooling Method	Wind cooling			
Protection grade	IP21			
Operating temperature range	-30 ~+60 >45) >45 Derating)			

Thyristor Power Supply For Hydrogen Production

Features

GN	U_rcp ammjgle bcqgel* fgef GN jctcj* fgef pcjg_`gjgrw_l b c agclaw,
	Rfc am k n m l c l r n p c q q k m s l r g l e _ b m n r q r f c r w n g a _ j b c q g e l m d`_j_l a c b v c b q r p c q q * b m s `j c g l q s j _ r g m l ,
	l c w q r p s a r s p _ j a m k n m l c l r q _ p c k _ b c m d j m u n c p k c _ `g j g r w k _ r c p q _ j q r m c c a r g t c j w n p c t c l r j m a _ j m t c p f c _ r g l e m d r f c a _ `g l c r a _ s q c b `w c b b w a s p p c l r ,
	A m k n j c r c n p m r c a r g m l k c _ q s p c q * p c _ j + r g k c k m l g r m p g l e m d _ g p r c k n c p _ r s p c * f s k g b g r w * u _ r c p r c k n c p _ r s p c * u _ r c p n p c q q s p c * u _ r c p m u * u _ r c p j c _ i _ e c * c j c k c l r r c k n c p _ r s p c * c r a , g l r f c a _ `g l c r ,
/O +74	K s j r g + n s j q c p c a r g d g a _ r g m l a _ l `c p c _ j g x c b r f p m s e f / O + 7 4 n s j q c u _ t c r m p c b s a c f _ p k m l g a q ,
	Q k _ j j q q x c _ l b j m u c o s g n k c l r g l t c q r k c l r ,

Options

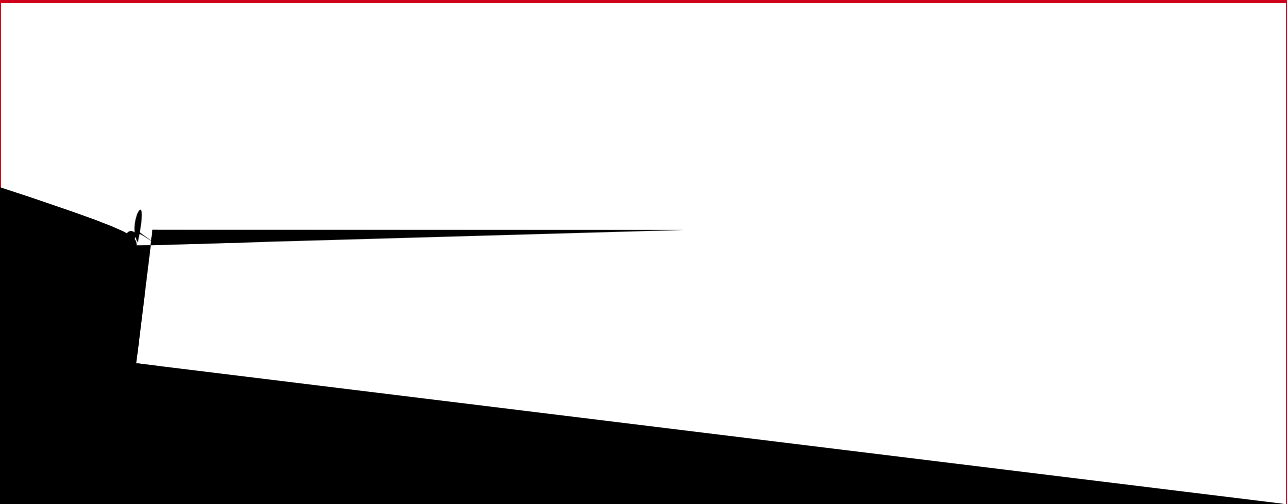
/03.+//2...iU	M n r g m l _ j n m u c p _ l e c 0 / 0 3 . + / / 2 . . . i U
- 13iT-/.iT 3.Fx-4.Fx	P _ r c b g l n s r t m j r _ e c - d p c o s c l a w 0 1 3 i T - / . i T 3 . F x - 4 . F x A m l _ e s p _ `j c
.T+60.T	P _ r c b m s r n s r t m j r _ e c 0 . T + 6 0 . T Q c r r _ `j c
.+0....?	P _ r c b B A a s p p c l r 0 . + 0 ?

Model	WDHS1250~11400	
AC input		
Grid frequency	50/60Hz	
Total current distortion rate	<5%	(At maximum power)
Power factor	≥ 0.9	
DC output		
Maximum output voltage	820V	
Maximum output current	20000A	
Operating voltage range	0~820V	
Output current accuracy	≤ 0.50%	(Maximum output current)
Output Current Ripple	≤ 5%	
Output control mode	Voltage /current /power control	
Protect		
identify AC phase sequence	possess	
Linkage fault protection	possess	
General parameters		
Communication interface	CAN,RS85,Ethernet	
Cooling Method	Water cooling	
Protection grade	IP54	
Operating temperature range	-30 ~+60	

DC-DC

DC-DC Power Supply For Hydrogen Production

Features	
GE@R	Bgp car fwbpmecl n p mbsargm l dpm k p c lcu_`jc clcpew m rfc epgb rm pcbsac rfc qwqrck g l t cqr k c l r amqr,
	?bmnr GE@R dsjj+am l rpmj nmucp rwn c bctgac _l b NUK am l rpmj rcaf l mjmew,
4. kq	Nmucp pcesj_rgm l pcqnmlqc rgkc 4. kq* d_qr k_rafgle p c lcu_`jc clcpew tmj_rjgrw,
KNNR	KNNR dslargm l* d_qr _l b cddgagcl r p_aigle md k_vgk s k nmucp nmgl r md NT k mbsjc,
	Kgapmqcam l b jctcj d_sjr n p mrcargm l* fgef+dp cosclaw ggmj_rgm l* clqspgle cosgn k c l r _l b qwqrck q_dcrw,
*	Kmpc am l tclgc l r dmp am k k gq qgm l gle* mncp_rgm l _l b k_g l rcl_lac* _l b cosgn k c l r fc_jrf k_l_eckcl r qwqrck,
A?L PQ263	Gr f_q p g a f am k k s l g a_rgm l g l rcpd_acq qsaf _q Crfcplcr* A?L* PQ263*_l_jme os_lrgw _l b bgegr_j os_lrgw g l rcpd_acq,
	Kmbsj_p bcqgel* n_p_jjcj cvrc l qgm l nmucp* qcpqc cvrc l qgm l tmjr_ec _l b nmucp,
.,3#	Q k_jjcp msrnsr tmjr_ec _l b asppcl r pgnnjc & .,3#** fgef mncp_rgm l c _agclaw md cjcarmjwrga acjj,
Options	
53.+/2..iU	Mnrgm l_j nmucp p_l ec8 53.+/2..iU
BA/3..T-BA/.iT	P_rcb g l nsr tmjr_ec8 BA/3..T-BA/.iT
.T+60.T	P_rcb msrnsr tmjr_ec8 .T+60.T & Qcrr_`jc'
.+0....?	P_rcb BA asppcl r8 .+0....?



Model	WDHD750~11400	
AC input		
Input voltage range	850~1500V(1300V	MPPT)/10kV ± 10%
MPPT MPPT quantity	1	
Maximum input current	980A	750kW
DC output		
Maximum output power	750~11400kW	
Maximum output voltage	820V	
Maximum output current	20000A	
Operating voltage range	0~820V	
Output current accuracy	≤ 0.5%	(Maximum output current)
Output Current Ripple	≤ 0.5%	
Dynamic response time	<60ms	
Output control mode	/ / Voltage /current /power control	
Protect		
Linkage fault protection	possess	
Input/output insulation detection	possess	
General parameters		
Communication interface	CAN,RS85,Ethernet	
Cooling Method	Water cooling	
Protection grade	IP54	
Operating temperature range	-30 ~+60	

Security Management

Data Center

Comprehensive data collection, detection and analysis.

Grasp the energy consumption situation in real time and comprehensively, and assist the accurate decision-making and control of the hydrogen production system.

Establish efficient hydrogen production strategy by calculating and analyzing hydrogen production efficiency.

Hydrogen Compressor System Solution

Rfc fwbpmecI am k npcqqmp gq m l c md rfc rfpcc ampc am k nmlclrq md rfc fwbpmecI pcdscjgle qr_rgmI, Am k n_pcb ugrf ngqrmI am k npcqqgmI* rfc bg_nfp_e k am k npcqqmp f_q rfc af_p_arcpgqrgaq md lm nmjjsrgmI gl rfc am k npcqqgmI npmacqq* lm jc_i_ec gl rfc am k npcqqgmI npmacqq* fgef am k npcqqgmI p_rgm_l b fgef cvf_sqr npcqqspc, Rfcpcdmpc* rfc am k kmljw sqcb fwbpmecI am k npcqqgmI cosgn k clrq rfc bg_nfp_e k am k npcqqmp,

?r npcqcI r* rfc jma_jgx_rgmI npmnmpgmI md fwbpmecI am k npcqqmp gq ep_bs_jjw gl apc_qgle, UmjmIe Epmsn f_q pc_afcb ammnpc_rgmI ugrf qctcp_j bm k cqrqa am k npcqqmp k_lsd_arspcpq rm npmtgbc bpgtc_l b am l rpmj npmb sarq qsaf_q k mrmpp_l b gl tcprcp dmp fwbpmecI am k npcqqmp*_l b_jqm a_l npmtgbc_ am k njcrc qcr md e_q am k npcqqmp qwqrc k q,



Project Case

- IGBT “ ”
Green Power IGBT Power Supply For Hydrogen Production Project of SINOPEC STAR Petroleum Co., Ltd.

Npmhcar Am I esp_rgm I

2 4K U+GE@R
Dmsp 4K U+GE@R fwbpmec I
ec I cp_rgm I nmucp qsnnjgcq

0 /OKT?
Rum /OKT? rp_ l qdmp k cpq

- Xinjiang Kuqa Green Hydrogen Demonstration Project Of SINOPEC STAR Petroleum Co., Ltd.

Npmhcar Am I esp_rgm I

04 /03. . iT?
04 nf_qc qfgdrqb pcarg cp
rp_ l qdmp k cpq md /03. . iT?

