

ZG-dSVG

ZG-dSVG Dynamic Reactive Power Compensation Device Product manual

Guangzhou Zhiguang Electric Technology Co., Ltd.

Integrated Energy Technology & Service Provider





XE+bQTE !

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XE+bQTE lmjmlecp sqcqj_pec+a_n_agrwa_n_agrmpq_lbglbsarmpq* `srpc_jgqcqrfcamltcpqgml mdpc_argtcclcpewrfpmsefrfc fgef+dpc+ osclawqugrafglemdnmucpcjcarpmlgabctgacq* ufgaff_qrfcglamkn_p_`jc_bt_lr_ecqmdrp_bgrgml_jpc_argtcnmucpamkncl q_rgmlcosgn+ kclrglrcpkqmdrcaflga_jglbcvcqqsaf_qamkncl q_rgmlc car*nmucpbclqgrw_lbmncp_rgmlc agclaw*_lbgrgqrfc `cqrqmjsrgml dmprfc amknpcfclqgtc k_l_eckclrmdnmucpos_jgrw_rnpcqclr* ufgafa_lc cargtcjwgknpmtcrfcrp_lqgclrqr_`gjgrwmdrfcepgb tmjr_ec*glfg`gr rfc gaicpmdrfc `sqtmjr_ec*amkncl q_rcrfcgk`_j_lacasppclr* jrcpmsrrfcf_pkmlgaq*_lbgknpmtcrfcnmucpd_armp,






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Ab GE@R k

Rfc k_gl agpasgr glajsbcq rfc gljcr a_`glcr* rfc qr_prgle a_`glcr _lb rfc nmucp a_`glcr, Rfc gljcr a_`glcr gq cosgnncb ugrf gqmj_rgml qugraf l* qr_pr+sn qugraf* _lb npc+af_pegle asppclr jgkgrgle pcqgqrmp P* amllcargle pc_armp J* _lb rfc nmucp a_`glcr gq cosgnncb ugrf _ asppclramltcprcp af_gl, Rfgq gq _afgctcb `wa_qa_bgle gbclrga_j nmucp slgrq* ufgaf amlr_gl rfc BA qsnnmpr a_n_agrmp Ab _lb rfc amk ksr_+ rmp agpasgr amk nmqcb md GE@Rq,

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P GE@R k

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Rfc npc+af_pec asppclr jgkgrgle pcqgqrmp P c cargtcjw jgkgrq rfc asppclr `cdmpc rfc bctgac qr_prq* npmrcargle rfc GE@Rq _lb BA qsnnmpr a_n_agrmpq, Rfc pcqgqrmp f_q_epc_rrfcpk_ja_n_agrw _lb a_l ugrfqr_lb pcnc_rcb glpsqf asppclrq dmp _qfmpr ncpgmb md rgkc,

J k

Rfc amltcprcp af_gl gq amllcarcb rm rfc epgb rfpmsef rfc amllcargle pc_armp J, Rfgq pc_armp amltcprq rfc msrnsr tmjr_ec md rfc amltcprcp af_gl glrm asppclr dmp glhcargml glrm rfc epgb* qkmmrfgle rfc pgnnjc eclcp_rcb `w rfc amltcprcp af_gl, Rfc pc_armp gq bcqgelcb ugrf fgef os_jgrw k_rcpg_jq_lb jmu k_elcrga bclqgrw* dc_rspgle fgef jglc_pgrw* jmu jmqq _lb f_pkmlga pcqgqr_lac,

Rfc k_gl amlrpmjjcp amlqgqrq md t_pgmsq ds larg ml_j `m_pbq rm am k njcrc ?A qge l_j _aosgqgrgm l*qugrafgle amlrpmj*NUK nsjqc bgqrpg`srgml* qr_rsq bcrcargml _lb qwqrc k npmrcargml,

Rfc nmucp slgr bpgtcp `m_pbgqglqr_jjcbgl rfc nmucp slgr _lbgq amll carcb rm rfc k_gl amlrpmjjcp tg_mnrga_j `pc rm amltcpr rfc amlrpmj qge l_jqglrm bpgtc qge l_jq dmp rfc GE@Rq _lb rm npmtgbc dccb`_ai ml rfc qr_rsq md rfc nmucp slgr,

Specifications and Technical Features

3.1 Model Description

Rfc npmbsarq _pc a_rcempgqcb _q dmjjmuq8

´ W * U

´ 13 13iT /. /.iT 13-/. 13iT /.iT .4 4iT 13-4 13iT 4iT

´ iT_p

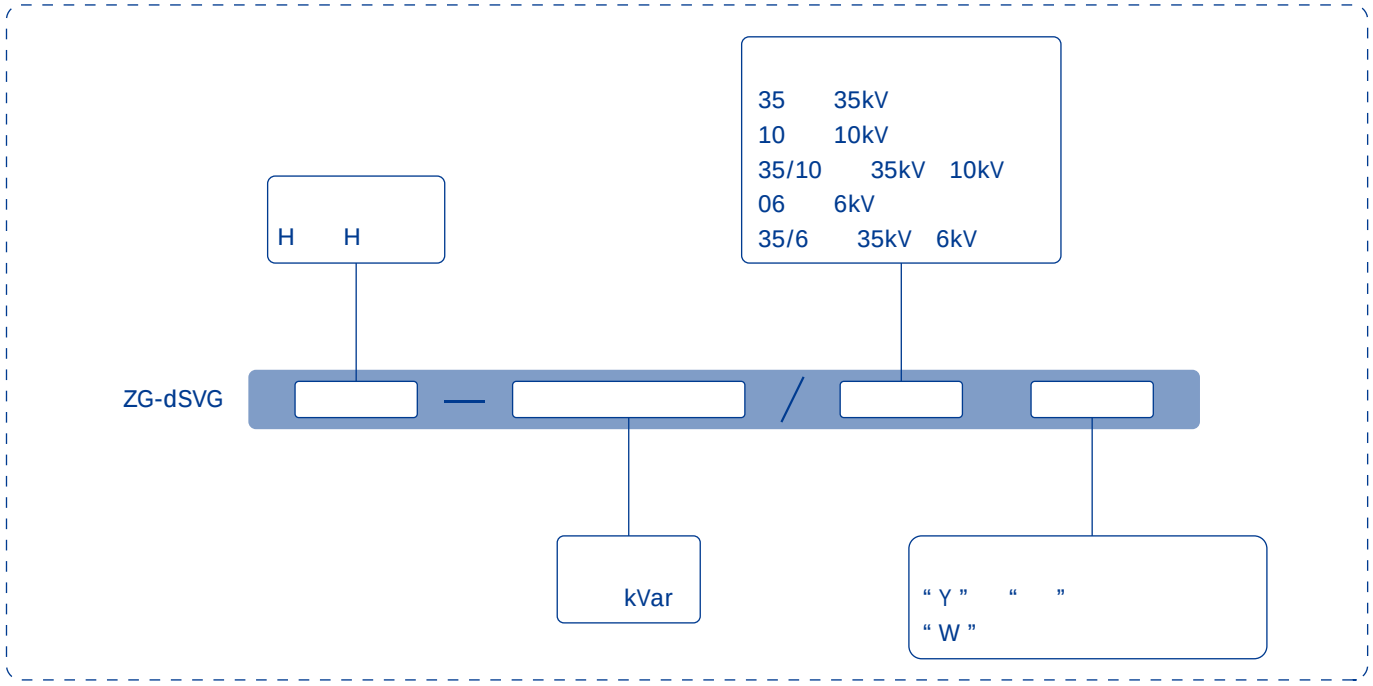
´ F F

´G lqr_jj_rgml dmp k8 W dmp g lbmmp g lqr_jj_rgml gl mlc _pp_lec k clr* U dmp msrbmmp g lqr_jj_rgml,

´Tmjr_ec jctcj8 13 k c_lq 13iT qcpgcq* /. k c_lq /.iT qcpgcq9 13-/. k c_lq 13iT qrcn+bmu l /.iT qcpgcq* .4 k c_lq 4iT qcpgcq9 13-4 k c_lq 13iT qrcn+bmu l 4iT qcpgcq,

´P_rcb a_n_agrw8 s l gr iT_p

´Npmbsar qrpsarspc dmp k8 F dmp F+`pgbec a_qa_bc



/.iT ®/....iT_p F

XE+bQTE+F /....-/.W k

Cv_k njc8 ? qwqrc k ugrf p_rcb tmjr_ec md /.iT* p_rcb am k nc lq_rgml a_n_agrw md ®/.*...iT_p* F+`pgbec a_qa_bc rmnmjmew* _lb mlc rwnc _pp_lec k clr dmp g lbmmp g lqr_jj_rgml* rfc k mbcj ls k `cp a_l `c cvnpcqqcb _q XE+bQTE+F /....-/.W,

High operating e ciency and excellent harmonic characteristics

XE+bQTE 77

:0# k k

A_qa_bcb XE+bQTE _bmnrq jmu+jmqq dsjjw+am l rpmjjcb nmucp bctgacq* am k `g l cb ugrf qncag_j am l rpmj _jempgrf k q rm c l qspc ncpdmp k _ l ac _ l b jmu jmqq* _ l b rfc c agc l aw md rfc bctgac gq 77 # %Gr a_ l c cargtcjw g l fg`gr fgef+dpcosc l aw f_p k m l ga g l hcargm l * _ l b rfc msrnsr asppc l r bgqrmprgm l p_rc gq :0# u fc l am k nc l q_rg l e pc_argtc nmucp,S l bcp rfc am l bgrgm l md qs agc l r a_n_agrw* gr _jqm f_q rfc ds l argm l q md qsnnpcqq+ g l e jmu f_p k m l gaq _ l b am k nc l q_rg l e s l `_j_ l ac,

High heat dissipation capacity

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XE+bQTE _gp+ammjcb ammjg l e qwqrc k _bmnrq g l rcp k cbg_rc _gp bsar bcqgel ugrf n_rc l rcb rcaf l mjmew* _ l b rfc a_`g l cr rmn d_l _bmnrq jm l e+jgdc* k _g l rc l _ l ac+dpcc cvrcp l _j pmrmp k mrmp _ l b ac l rpgdse_j d_l ugrf jmu+l mgqc bcqgel* u fgaf c l qspcq rfc q_dcrw _ l b pcjg_`gjgrw md rfc mtcp_jj qwqrc k,

High fault detection and protection capability

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Ugrf F_jj bcrcargm l _ l b s l gr qcjd+rcqr ds l argm l g l qr_ l b `w* _ l b qcjd+rcqr _ l b npmrcargm l ds l argm l g l tmjr_ec* asppc l r _ l b rc k ncp_rspc _drcp rfc qwqrc k gq ps l l g l e* d_sjrq a_l `c bcrcarcb g l rg k c _ l b gqmj_rcb _srm k _rga_jjw rm c l qspc rf_r rfc qwqrc k ugjj l mr _ car rfc nmucp epgb _ l b rfc cosgn k c l r _r rfc jm_b qgbc,

G l _bbgrgm l * XE+bQTE npmbsarq ugrf `wn_qq ds l argm l a_l k _g l r_g l qr_`jc mncp_rgm l bspg l e d_sjr gqmj_rgm l,

Diversified system functions

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XE+bQTE f_q am l qr_ l r tmjr_ec am k nc l q_rgm l k mbc g l _bbgrgm l rm rfc am l tc l rgm l _j am l qr_ l r nmucp d_armp am k nc l q_rgm l _ l b am l qr_ l r pc_argtc nmucp am k nc l q_rgm l ds l argm l q* _ l b fgef _ l b jmu tmjr_ec rp_tcpqg l e ds l argm l q rm amnc ugrf l cu c l cpew nmucp ec l cp_+ rgm l 9 Fgef+tmjr_ec qcjd+afcaig l e _ l b qcjd+qr_prg l e ds l argm l rm amnc ugrf cvrpc k cjw s l qr_`jc nmucp epgb9

Nmqqcqqg l e k sjrgnjc n_p_jjcj mncp_rgm l rcaf l mjmew rm amnc ugrf rfc qgrc md qsncp+j_pec a_n_agrw _q ucjj _q k sjrgnjc `sq`_pq _ l b k sjrgnjc qwqrc k q* _ l b m`r_g l g l e rfc n_rc l rcb rcaf l mjmew, &Mnrgm l _j ds l argm l q'

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目 project name	项

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NO.	项目名称 project name	容量 capacity kVar	电压 volotage kV	套数 set	应用场景 application scenario
9	35kV Shaanxi Coal Tongchuan Mining (Bureau) Co., Ltd. Huajing Hougou Wind Shaft Substation 35kV Substation	5000	10	1	Coal
10	35kV SVG Shaanxi Coal Hancheng Xipeng 35kV Substation SVG Project	SVG 2000 FC 2000	6	2	Coal
11	EPC EPC general contracting project of Phase II of surface production system of Hongshazhuan open-pit coal mine of Xinjiang Company	1200	10	4	Coal
12	110kV Ruoqiang Zhicun Washixia Mining Co., Ltd. ore dressing plant 110kV substation project	15000	10	1	Mining
13	EPC EPC General Contracting Project for Raw Coal Transportation System Rehabilitation Project of East Open Pit Mine	3000	10	2	open-pit coal mine
14	Zijin High and Low Voltage Distribution System Compensation and Energy Saving Technology Reform Project	2000	10	2	Mining production
15	10kVSVG Yunnan Tin Industry Co., Ltd. tin branch 10kVSVG project	1500	10	2	Tin production
	35kV Fugu County Honghua Coal Mine Co., Ltd. 35kV substation new construction	3000	10	2	Coal
	10kV SVG Yushen Coal Yushuwan Coal Mine 10kV high-voltage SVG reactive power compensation device	3000	10	2	Coal
	SVG SVG Project of Ground Power Station of Ping Coal Five Mines	4000	6	1	Coal
	4.8 Inner Mongolia Dongli Photovoltaic Annual Output of 48,000 tonnes of Silicon Material Project	35000	35	2	semiconductor manufacturing Silicon production
		23000	35	2	
		12000	10	2	
	20GW Annual output of 20GW monocrystalline silicon rod production line project of Kunming Dongchuan Yuzhe Semiconductor Co.	8000	10	8	
	Zhejiang Wangrong Semiconductor annual output of 240,000 o خ ا o ج شم tF			Ővzo3 2 ɔ /annual Ar kunmi ⁷	semiconductor manufacturing
					semiconductor manufacturing

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NO.	项目名称 project name	capacity kVar	volotage kV	套数 set	应用 application scenario

Xfges_le%q qcjd+bctcjmncb 13iT bgpcar+f_legle ®6KT_p fgef+tmjr_ec bwl_kga pc_argtc nmucp amknclq_rgml bctgac _lb 5KT_p DA glbsargtc pc_argtc nmucp amknclq_rgml bctgac ucpc dmpk_jjw nsrglrm mncp_rgml _rrfc uglbd_pk md Fs_bg_l Epmsn,Rfc amlqrpsargml qa_jc md rfgq uglbd_pk gq 27,3KU* ugrf 11 uglb rsp`glcq md /3. . iU a_n_agrw*_lb rfc uglbd_pk gq _r_l _jrgrsbc md 13. . kcrpcq_`mtc qc_jctcj,

Xfge cjmncb 13iT bgpcar+kmslrcb 2. KT_p u_rcp+ammjcb fgef+tmjr_ec bwl_kga pc_argtc nmucp amknclq_rgml bctgac
E u_q rm mncp_rgml _r Fs_lcle Epmsn%q / . . KU uglbd_pk, Uglb nmucp eclcp_rgml npmhcarq_pc_ carcb `w rfc uc_rfcp*
f j_pe l tmjr_ec bpmn _knjgrsbc _lb jmu nmucp d_armp, Rfc npmhcar glqr_jjcb XE+bQTE u_rcp+ammjcb pc_argtc nmucp
knclq rfc 13iT `sq qgbc _aampbgle rm rfc _ars_j qgrs_rgml md rfc qgrc rm qsnnpcqq tmjr_ec sars_rgml _lb gk npmtc rfc
nmuc

Qgv qcrq md 13 iT bgpcar+ k ms l rcb 02KT_p u_rcp+ammjcb QTEq ugr f k sjrgnjc n_p_jjcj mncp_rgm l bctcjmncb `w Xfges_ le ucpc m ag_jjw nsr g l rm mncp_rgm l _r _ Lg l evg_ NT nmucp qr_rgm l,Rfc 00. iT nfmrmtmjr_ga `mmqrcp qr_rgm l gq g l qr_jjcb ugr f rum 14. KT? k _g l rp_ l qdmp k cpq _ l b rum 13 iT `sq`_pq, ?aampbg l e rm rfc qgrs_rgm l md j_pec epgb+am l l carcb a_n_agrw _ l b rum qcargm l q md `sqcq* rfpcc qcrq md u_rcp+ammjcb bw l _ k ga pc_argtc nmucp am k nc l q_rgm l bctgacq _pc g l qr_jjcb m l rfc qgbc md c_af qcargm l md 13 iT `sqcq* _ l b _r rfc q_ k c rg k c* rfc ac l rpc

Xfges_ le%q qcjd+bctcjmncb /. iT bgpcar+f_ le g l e ®4KT_p QTE _ l b 4KT_p DA jrcpg l e bctgac u_q dmp k _jjw nsr g l rm mncp_rgm l _r Fc`cg Gpm l _ l b Qrccj Fmr Pmjjg l e Kgjj, Rfc qgrc f_q j_pec jm_b qfmaiq* j_pec tmjr_ec bgnq* jmu nmucp d_armp* _ l b k _ l w f_p k m l gaq cvaccbg l e rfc qr_ l b_pb, Rfc DA am k nc l q_rcq dmp k _ l w f_p k m l gaq g l rfc `sq* _ l b rfc QTE am k nc l q_rcq dmp epgb pc_argtc nmucp _ l b a_n_agrgtc pc_argtc nmucp bspg l e f_p k m l ga am k nc l q_rgm l* c cargtcjw qsnnpcqqg l e tmjr_ec sars_rgm l q `pmsefr _`msr `w rfc qrccj fmr pmjjg l e npmacqq _ l b qr_`gjgqg l e rfc nmucp d_armp m l rfc `sq qgbc,

Huainan Mining Industry Dynamic Reactive Power Compensation Project

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! kDA QTE

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Xfges_leglbcnclbclrjwbctcjmncb/.iT®5KT_pQTE_lb1KT_pDA jrcpgle bctgac u_qnsrglrmmncp_rgmlgl Fs_gl_l Kglgle6lbsq+ rpw,Rfc qgrc f_qj_pec jm_b qfmaiq*j_pec tmjr_ec bgnq*jmu nmucpd_armp*_lb k_lw f_pkmlga cvaccb_lacq, DA amknclq_rcq dmp k_lw f_pkmlgaq_rrfc `sq`_p*_lb QTE amknclq_rcq dmp epgb pc_argtc nmucp_qucjj_qa_n_agrgtc pc_argtc nmucp bspgle f_pkmlga amknclq_+ rgml*c cargtcjwqsnnpcqqgle tmjr_ec sars_rgmlq_lb qr_`gjgqgle rfc nmucpd_armp_rrfc `sq`_pqgbc,



35kV

Shanxi Iron & Steel 35KV Substation Dynamic Reactive Power Compensation Project

13iT 0 /.Kt_p /.iT k ! !

k

Rfc lcu amlqrpsargml md 13iT qs`qr_rgml md Qf_lvg Qrccj _bmnrq rum qcrq md /.Kt_p /.iT bwl_kga pc_argtc nmucp amknclq_rgml bctgacq, Rfc qgrc tmjr_ec sars_rgml gqj_pec* f_pkmlga nmjjsrgml gq qcpgmsq*rfpcc+nf_qcgk`_j_lac_lb mrfcp npm`jckqjc_brm rfc mtcp_jj nmucpd_armp gq jmu, Rfcpcdmpc*rfc bwl_kga pc_argtc nmucp amknclq_rgml bctgac c cargtcjw pcbsacq tmjr_ec sars_rgml*qr_`gjgqcq `sq tmjr_ec*gknpmtcq nmucpd_armp_lb pcbsacq pc_argtc nmucp jmqq,





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