

产品选型清单
PRODUCT SELECTION GUIDE
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For Iran EPC Project Partners

2026-04-17 | 详细完整版 V2
2026-04-17 | Detailed Complete Version V2 (English)

1. PV MODULES / SOLAR PANELS

1. PV MODULES

Solar panels convert sunlight into electricity. Available for utility-scale, commercial, and residential use.

1.1 Mono-crystalline Silicon Module

1.1 Mono-crystalline Silicon Module

Model	Power	Efficiency	Vmp	Imp	Dimensions (mm)	Weight
JKM400M-60H	400W	20.8%	40.5V	9.88A	1722x1134x35	20.5kg
JKM450M-60H	450W	21.3%	41.5V	10.84A	1909x1134x35	22.5kg
JKM500M-60H	500W	22.0%	42.5V	11.76A	2094x1134x35	24.9kg
JKM540M-72H	540W	21.5%	41.5V	13.01A	2274x1134x35	28.9kg
JKM580M-72H	580W	22.0%	42.0V	13.81A	2274x1134x35	28.9kg
JKM600M-72H	600W	22.3%	42.5V	14.12A	2274x1134x40	30.5kg

1.2 Poly-crystalline Silicon Module

1.2 Poly-crystalline

Model	Power	Efficiency	Vmp	Imp	Dimensions (mm)	Weight
JKP380M-60P	380W	18.8%	39.5V	9.62A	1722x1134x35	20.5kg
JKP400M-60P	400W	19.5%	40.0V	10.00A	1909x1134x35	22.5kg
JKP450M-72P	450W	19.5%	41.0V	10.98A	2094x1134x40	24.9kg

1.3 Bifacial Dual-Glass Module

1.3 Bifacial Dual-Glass

Model	Power	Efficiency	Rear Gain	Vmp	Dimensions (mm)
JKM450MB-60H	450W	21.3%	10-25%	41.5V	1909x1134x35
JKM540MB-72H	540W	21.5%	10-30%	41.5V	2274x1134x35
JKM580MB-72H	580W	22.0%	10-30%	42.0V	2274x1134x35

1.4 Half-Cell Module

1.4 Half-Cell

Model	Power	Efficiency	Cell Technology	Operating Temp
JKM400M-HC	400W	20.8%	Half-cut + MBB	-40C~+85C
JKM450M-HC	450W	21.3%	Half-cut + MBB	-40C~+85C
JKM500M-HC	500W	22.0%	Half-cut + MBB	-40C~+85C
JKM550M-HC	550W	22.3%	Half-cut + MBB	-40C~+85C

Applications: Utility solar farms, rooftop, commercial/industrial, residential systems

2. PV INVERTERS

2. PV INVERTERS

2.1 String Inverter

2.1 String Inverter

Model	Max DC Input	MPPT Tracks	Max Input Voltage	Rated Output	Efficiency
SG50KTL	65kW	4	1100V DC	50kW / 400V	99.0%
SG80KTL	104kW	6	1100V DC	80kW / 400V	99.0%

SG100KTL	130kW	6	1100V DC	100kW / 400V	99.0%
SG110KTL	143kW	8	1500V DC	110kW / 400V	99.0%
SG125KTL	162kW	8	1500V DC	125kW / 400V	99.0%
SG160KTL	208kW	10	1500V DC	160kW / 400V	99.0%
SG250KTL	325kW	12	1500V DC	250kW / 400V	99.0%

2.2 Central Inverter

2.2 Central Inverter

Model	Max DC Input	Max Input Voltage	Rated Output	Efficiency	IP Rating
SC500	650kW	1000V DC	500kW / 315V	98.8%	IP54
SC630	819kW	1000V DC	630kW / 315V	98.8%	IP54
SC1000	1300kW	1000V DC	1000kW / 315V	99.0%	IP54
SC1250	1625kW	1500V DC	1250kW / 315V	99.0%	IP54
SC2500	3250kW	1500V DC	2500kW / 630V	99.0%	IP54

2.3 Hybrid Inverter (with Storage Support)

2.3 Hybrid Inverter

Model	Power	Battery Voltage	MPPT	Grid/T-off	Application
SH3K-48	3kW	48V DC	2 tracks	Supported	Residential
SH5K-48	5kW	48V DC	2 tracks	Supported	Residential
SH8K-48	8kW	48V DC	3 tracks	Supported	Residential/Small Commercial
SH10K-HV	10kW	400V DC	2 tracks	Supported	Commercial
SH50K-HV	50kW	400V DC	4 tracks	Supported	Commercial

3. ENERGY STORAGE BATTERY

3. ENERGY STORAGE

3.1 LFP Cell (Lithium Iron Phosphate)

3.1 LFP Cell

Cell Model	Capacity	Voltage	IR	Cycle Life	Dimensions
LF280K	280Ah	3.2V	<0.5mOhm	6000+ (80% DOD)	71x173x205mm
LF230K	230Ah	3.2V	<0.55mOhm	6000+ (80% DOD)	71x173x200mm
LF100K	100Ah	3.2V	<0.6mOhm	4000+ (80% DOD)	60x173x200mm
LF50K	50Ah	3.2V	<0.8mOhm	4000+ (80% DOD)	60x173x135mm

3.2 Battery Pack

3.2 Battery Pack

Model	Config	Voltage	Capacity	Energy	Application
BP48V100	15S1P (LF280K)	48V DC	100Ah	4.8kWh	Residential
BP48V200	15S2P (LF280K)	48V DC	200Ah	9.6kWh	Residential
BP96V100	30S1P (LF280K)	96V DC	100Ah	9.6kWh	Commercial
BP400V100	125S1P (LF280K)	400V DC	100Ah	40kWh	C&I
BP400V280	125S1P (LF280K)	400V DC	280Ah	112kWh	Large Storage
BP800V200	250S1P (LF280K)	800V DC	200Ah	160kWh	Utility-scale

3.3 Energy Storage Cabinet

3.3 Storage Cabinet

Model	Config	Rated Power	Energy	DOD	Cycles
ESC-100	1xBP400V100	50kW	100kWh	90%	6000+
ESC-200	2xBP400V100	100kW	200kWh	90%	6000+
ESC-500	5xBP400V100	250kW	500kWh	90%	6000+
ESC-1000	10xBP400V100	500kW	1000kWh	90%	6000+

3.4 Energy Storage Container

3.4 Storage Container

Model	Energy	Power	DC Voltage	System Efficiency	Container
ESC-2MWh	2MWh	1MW	1000V DC	95%	40HQ
ESC-3MWh	3MWh	1.5MW	1200V DC	95%	40HQ
ESC-5MWh	5MWh	2.5MW	1500V DC	96%	45ft

3.5 BMS (Battery Management System)

3.5 BMS

Model	Application	Architecture	Comm Interface	Protection
BMS-H	Residential (5-20kWh)	Tier-1	RS485/CAN	OV/UV/OT/SC
BMS-C	C&I (50-500kWh)	Tier-2	RS485/CAN/Ethernet	Balancing/Insulation/Diagnostics
BMS-U	Utility (500kWh+)	Tier-3	Ethernet/Fiber	3-level protection/Fire link

4. GENERATOR SETS

4. GENERATOR SETS

4.0 Household Generator (2.5kW-5kW Gasoline)

4.0 Household Generator

Model	Rated Power	Max Power	Voltage/Freq	Type	Noise dB(A)	Features
GF2500	2.0kW	2.5kW	230V/50Hz	Standard	68	Economical, home backup
GF3000	2.5kW	3.0kW	230V/50Hz	Standard	70	Home backup use
GF5000	4.0kW	5.0kW	230V/50Hz	Standard	72	High power, multi-appliance
GF2500S	2.0kW	2.5kW	230V/50Hz	Silent	58	Quiet design, night use
GF3000S	2.5kW	3.0kW	230V/50Hz	Silent	60	Silent, home backup
GF5000S	4.0kW	5.0kW	230V/50Hz	Silent	65	Silent, high power, best for home
GF5000I	4.5kW	5.0kW	230V/50Hz	Inverter	55	Inverter silent, most quiet, 30% fuel saving

Applications: Home backup power, camping, outdoor work, power outage emergency, small shop

4.1 Commercial Gasoline Generator (3kW-10kW)

4.1 Commercial Gasoline

Model	Rated Power	Max Power	Voltage/Freq	Type	Noise	Application
GF8K	6.5kW	8.0kW	230V/50Hz	Standard	75	Construction site/shop
GF10K	8.0kW	10kW	230V/50Hz	Standard	78	Construction site/shop
GF8KS	6.5kW	8.0kW	230V/50Hz	Silent	65	Construction site/shop
GF10KS	8.0kW	10kW	230V/50Hz	Silent	68	Construction site/shop

4.2 Diesel Generator (Standby/Prime Power)

4.2 Diesel Generator

Model	Prime Power	Standby Power	Voltage/Freq	RPM	Fuel Consumption	Application
YC50	40kW/50kVA	44kW/55kVA	400V/50Hz	1500	210g/kWh	Factory/Construction
YC100	80kW/100kVA	88kW/110kVA	400V/50Hz	1500	200g/kWh	Factory/Hospital
YC200	160kW/200kVA	176kW/220kVA	400V/50Hz	1500	195g/kWh	Factory/Data Center
YC250	200kW/250kVA	220kW/275kVA	400V/50Hz	1500	195g/kWh	Large Factory
YC350	280kW/350kVA	308kW/385kVA	400V/50Hz	1500	190g/kWh	Industrial/Commercial
YC500	400kW/500kVA	440kW/550kVA	400V/50Hz	1500	190g/kWh	Large Project
YC800	640kW/800kVA	704kW/880kVA	400V/50Hz	1500	185g/kWh	Industrial
YC1000	800kW/1000kVA	880kW/1100kVA	400V/11kV	1500	185g/kWh	Large Power Station

4.3 Natural Gas Generator

4.3 Gas Generator

Model	Rated Power	Voltage/Freq	Gas Pressure	Thermal Efficiency	Dimension
GN100	100kW/125kVA	400V/50Hz	2-5kPa	38%	EPA Tier 2
GN200	200kW/250kVA	400V/50Hz	2-5kPa	38%	EPA Tier 2
GN500	500kW/625kVA	400V/50Hz	2-5kPa	40%	EPA Tier 2
GN800	800kW/1000kVA	400V/10.5kV	2-5kPa	40%	EPA Tier 2

4.4 Mobile Power Station

4.4 Mobile Station

Model	Rated Power	Voltage	Type	Trailer Config	Application
YD100	100kVA	400V	Trailer	4-wheel trailer	Field work/temp power
YD250	250kVA	400V	Trailer	4-wheel trailer	Construction/Emergency
YD500	500kVA	400V	Container	Fixed container	Large construction

5. POWER TRANSFORMERS

5. POWER TRANSFORMERS

5.1 Oil-immersed Transformer

5.1 Oil-immersed

Model	Rating	Voltage Ratio	No-load Loss	Load Loss	Impedance	Vector Group
S11-30/10	30kVA	10+/-5%/0.4kV	0.08kW	0.6kW	4.0%	Dyn11
S11-50/10	50kVA	10+/-5%/0.4kV	0.13kW	0.87kW	4.0%	Dyn11
S11-100/10	100kVA	10+/-5%/0.4kV	0.20kW	1.5kW	4.0%	Dyn11
S11-200/10	200kVA	10+/-5%/0.4kV	0.28kW	2.5kW	4.0%	Dyn11
S11-315/10	315kVA	10+/-5%/0.4kV	0.38kW	3.6kW	4.0%	Dyn11
S11-400/10	400kVA	10+/-5%/0.4kV	0.45kW	4.3kW	4.0%	Dyn11
S11-630/10	630kVA	10+/-5%/0.4kV	0.65kW	6.2kW	4.5%	Dyn11
S11-800/10	800kVA	10+/-5%/0.4kV	0.75kW	7.5kW	4.5%	Dyn11
S11-1000/10	1000kVA	10+/-5%/0.4kV	0.85kW	9.0kW	4.5%	Dyn11
S11-1250/10	1250kVA	10+/-5%/0.4kV	1.0kW	10.8kW	4.5%	Dyn11
S11-1600/10	1600kVA	10+/-5%/0.4kV	1.2kW	13.0kW	5.0%	Dyn11
S13-100/10	100kVA	10+/-5%/0.4kV	0.16kW	1.5kW	4.0%	Dyn11
S13-200/10	200kVA	10+/-5%/0.4kV	0.22kW	2.5kW	4.0%	Dyn11
S13-315/10	315kVA	10+/-5%/0.4kV	0.30kW	3.5kW	4.0%	Dyn11

S13-500/10	500kVA	10+/-5%/0.4kV	0.45kW	5.2kW	4.5%	Dyn11
S13-630/10	630kVA	10+/-5%/0.4kV	0.55kW	6.2kW	4.5%	Dyn11
S13-1000/10	1000kVA	10+/-5%/0.4kV	0.72kW	9.0kW	4.5%	Dyn11
S20-100/10	100kVA	10+/-5%/0.4kV	0.13kW	1.4kW	4.0%	Dyn11
S20-315/10	315kVA	10+/-5%/0.4kV	0.25kW	3.3kW	4.0%	Dyn11
S20-630/10	630kVA	10+/-5%/0.4kV	0.45kW	5.8kW	4.5%	Dyn11
S20-1000/10	1000kVA	10+/-5%/0.4kV	0.60kW	8.5kW	4.5%	Dyn11

5.2 Dry-type Transformer

5.2 Dry-type

Model	Rating	Voltage Ratio	No-load Loss	Load Loss (120C)	Impedance	Insulation
SCB10-30/10	30kVA	10+/-2x2.5%/0.4kV	0.18kW	0.7kW	6.0%	F Class (155C)
SCB10-50/10	50kVA	10+/-2x2.5%/0.4kV	0.25kW	1.0kW	6.0%	F Class
SCB10-100/10	100kVA	10+/-2x2.5%/0.4kV	0.4kW	1.8kW	6.0%	F Class
SCB10-200/10	200kVA	10+/-2x2.5%/0.4kV	0.6kW	3.0kW	6.0%	F Class
SCB10-315/10	315kVA	10+/-2x2.5%/0.4kV	0.8kW	4.2kW	6.0%	F Class
SCB10-500/10	500kVA	10+/-2x2.5%/0.4kV	1.1kW	6.0kW	6.0%	F Class
SCB10-630/10	630kVA	10+/-2x2.5%/0.4kV	1.2kW	7.0kW	6.0%	F Class
SCB10-800/10	800kVA	10+/-2x2.5%/0.4kV	1.4kW	8.5kW	6.0%	F Class
SCB10-1000/10	1000kVA	10+/-2x2.5%/0.4kV	1.6kW	10.5kW	6.0%	F Class
SCB10-1250/10	1250kVA	10+/-2x2.5%/0.4kV	1.9kW	12.5kW	6.0%	F Class
SCB10-1600/10	1600kVA	10+/-2x2.5%/0.4kV	2.2kW	15.0kW	6.0%	F Class
SCB10-2000/10	2000kVA	10+/-2x2.5%/0.4kV	2.6kW	18.0kW	6.0%	F Class
SCB11-100/10	100kVA	10+/-2x2.5%/0.4kV	0.35kW	1.7kW	6.0%	F Class
SCB11-200/10	200kVA	10+/-2x2.5%/0.4kV	0.55kW	2.9kW	6.0%	F Class
SCB11-315/10	315kVA	10+/-2x2.5%/0.4kV	0.72kW	4.0kW	6.0%	F Class
SCB11-500/10	500kVA	10+/-2x2.5%/0.4kV	1.0kW	5.7kW	6.0%	F Class
SCB11-630/10	630kVA	10+/-2x2.5%/0.4kV	1.1kW	6.7kW	6.0%	F Class
SCB11-1000/10	1000kVA	10+/-2x2.5%/0.4kV	1.45kW	10.0kW	6.0%	F Class
SCB11-1250/10	1250kVA	10+/-2x2.5%/0.4kV	1.72kW	12.0kW	6.0%	F Class
SCB11-1600/10	1600kVA	10+/-2x2.5%/0.4kV	2.0kW	14.5kW	6.0%	F Class
SCB12-100/10	100kVA	10+/-2x2.5%/0.4kV	0.30kW	1.6kW	6.0%	F Class
SCB12-315/10	315kVA	10+/-2x2.5%/0.4kV	0.62kW	3.8kW	6.0%	F Class
SCB12-630/10	630kVA	10+/-2x2.5%/0.4kV	0.95kW	6.4kW	6.0%	F Class
SCB13-100/10	100kVA	10+/-2x2.5%/0.4kV	0.25kW	1.5kW	6.0%	F/H Class
SCB13-315/10	315kVA	10+/-2x2.5%/0.4kV	0.52kW	3.6kW	6.0%	F/H Class
SCB13-630/10	630kVA	10+/-2x2.5%/0.4kV	0.80kW	6.0kW	6.0%	F/H Class
SCB13-1000/10	1000kVA	10+/-2x2.5%/0.4kV	1.10kW	9.5kW	6.0%	F/H Class

Note: Losses are reference values. Insulation class F (155C) or H (180C) optional. Confirm with type test report.

6. BOX-TYPE SUBSTATIONS

6. BOX-TYPE SUBSTATIONS

Model	Rating	HV Side	LV Side	HV Current	LV Current	SC Withstand
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YB-100/10	100kVA	10kV	0.4kV	5.77A	144A	16kA/2s
YB-200/10	200kVA	10kV	0.4kV	11.55A	288A	16kA/2s
YB-315/10	315kVA	10kV	0.4kV	18.2A	454A	16kA/2s
YB-500/10	500kVA	10kV	0.4kV	28.9A	721A	16kA/2s
YB-630/10	630kVA	10kV	0.4kV	36.4A	909A	16kA/2s
YB-800/10	800kVA	10kV	0.4kV	46.2A	1155A	16kA/2s
YB-1000/10	1000kVA	10kV	0.4kV	57.7A	1443A	16kA/2s
YB-1250/10	1250kVA	10kV	0.4kV	72.2A	1804A	16kA/2s
YB-1600/10	1600kVA	10kV	0.4kV	92.4A	2309A	16kA/2s
YB-630/35	630kVA	35kV	0.4kV	10.4A	909A	16kA/2s
YB-1000/35	1000kVA	35kV	0.4kV	16.5A	1443A	16kA/2s
YB-1600/35	1600kVA	35kV	0.4kV	26.4A	2309A	16kA/2s

Configuration: HV Switchgear + Transformer + LV Switchgear + Auxiliary System (temp control/lighting/fire protection)

7. SWITCHGEAR

7. SWITCHGEAR

7.1 High Voltage Switchgear (12kV)

7.1 HV Switchgear 12kV

Model	Rated Voltage	Rated Current	SC Breaking	SC Withstand	IP Class	Standard
KYN28A-12/630	12kV	630A	25kA	25kA/4s	IP4X	GB3906
KYN28A-12/1000	12kV	1000A	31.5kA	31.5kA/4s	IP4X	GB3906
KYN28A-12/1250	12kV	1250A	31.5kA	31.5kA/4s	IP4X	GB3906
KYN28A-12/1600	12kV	1600A	31.5kA	31.5kA/4s	IP4X	GB3906
KYN28A-12/2000	12kV	2000A	40kA	40kA/4s	IP4X	GB3906
KYN28A-12/2500	12kV	2500A	40kA	40kA/4s	IP4X	GB3906
KYN28A-12/3150	12kV	3150A	40kA	40kA/4s	IP4X	GB3906
XGN15-12/630	12kV	630A	20kA	20kA/4s	IP3X	GB3906
XGN15-12/1250	12kV	1250A	31.5kA	31.5kA/4s	IP3X	GB3906

7.2 High Voltage Switchgear (33kV / 40.5kV)

7.2 HV Switchgear 33kV/40.5kV

Model	Rated Voltage	Rated Current	SC Breaking	SC Withstand	Cabinet Width	Standard
KYN61-40.5/630	40.5kV	630A	25kA	25kA/4s	1400mm	GB3906
KYN61-40.5/1250	40.5kV	1250A	25kA	25kA/4s	1400mm	GB3906
KYN61-40.5/1600	40.5kV	1600A	25kA	25kA/4s	1400mm	GB3906
KYN61-40.5/2000	40.5kV	2000A	31.5kA	31.5kA/4s	1680mm	GB3906
KYN61-40.5/2500	40.5kV	2500A	31.5kA	31.5kA/4s	1680mm	GB3906
KYN61-40.5/3150	40.5kV	3150A	31.5kA	31.5kA/4s	1800mm	GB3906
XGN2-40.5/1250	40.5kV	1250A	25kA	25kA/4s	1400mm	GB3906
XGN2-40.5/2000	40.5kV	2000A	31.5kA	31.5kA/4s	1680mm	GB3906

7.3 Low Voltage Switchgear (400V)

7.3 LV Switchgear 400V

Model	Voltage	Busbar Current	SC Short-time	Breaking Capacity	Drawer Type	Standard
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GGD-400	400V AC	400A	15kA/1s	30kA	Fixed	GB7251.1
GGD-630	400V AC	630A	30kA/1s	50kA	Fixed	GB7251.1
GGD-1000	400V AC	1000A	30kA/1s	50kA	Fixed	GB7251.1
GGD-1600	400V AC	1600A	50kA/1s	80kA	Fixed	GB7251.1
GGD-2500	400V AC	2500A	50kA/1s	80kA	Fixed	GB7251.1
GGD-3150	400V AC	3150A	65kA/1s	100kA	Fixed	GB7251.1
GCS-630	400V AC	630A	50kA/1s	80kA	Withdrawable	GB7251.1
GCS-1000	400V AC	1000A	50kA/1s	80kA	Withdrawable	GB7251.1
GCS-1600	400V AC	1600A	50kA/1s	80kA	Withdrawable	GB7251.1
GCS-2500	400V AC	2500A	80kA/1s	100kA	Withdrawable	GB7251.1
GCS-4000	400V AC	4000A	80kA/1s	100kA	Withdrawable	GB7251.1
GCK-400	400V AC	400A	50kA/1s	80kA	Withdrawable	GB7251.1
GCK-1000	400V AC	1000A	50kA/1s	80kA	Withdrawable	GB7251.1
GCK-1600	400V AC	1600A	80kA/1s	100kA	Withdrawable	GB7251.1
GCK-2500	400V AC	2500A	80kA/1s	100kA	Withdrawable	GB7251.1
MNS-630	400V AC	630A	50kA/1s	80kA	Withdrawable	GB7251.1
MNS-1000	400V AC	1000A	50kA/1s	80kA	Withdrawable	GB7251.1
MNS-2500	400V AC	2500A	80kA/1s	100kA	Withdrawable	GB7251.1
MNS-4000	400V AC	4000A	100kA/1s	120kA	Withdrawable	GB7251.1
MNS-5000	400V AC	5000A	100kA/1s	120kA	Withdrawable	GB7251.1

8. INSTRUMENT TRANSFORMERS

8. INSTRUMENT TRANSFORMERS

8.1 Current Transformer (CT)

8.1 Current Transformer

Model	Voltage	Primary Current	Secondary	Rated Burden	Accuracy Class	Mounting
LMZ1-12/100	12kV	100A	5A/1A	10VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/200	12kV	200A	5A/1A	15VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/400	12kV	400A	5A/1A	20VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/600	12kV	600A	5A/1A	20VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/800	12kV	800A	5A/1A	25VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/1000	12kV	1000A	5A/1A	25VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/1500	12kV	1500A	5A/1A	30VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/2000	12kV	2000A	5A/1A	30VA	0.2S/0.5/0.5S	Busbar
LMZ1-12/3000	12kV	3000A	5A/1A	40VA	0.2S/0.5/0.5S	Busbar
LMZD-35/100	35kV	100A	5A/1A	15VA	0.2/0.5S	Post-type
LMZD-35/200	35kV	200A	5A/1A	20VA	0.2/0.5S	Post-type
LMZD-35/400	35kV	400A	5A/1A	25VA	0.2/0.5S	Post-type
LMZD-35/600	35kV	600A	5A/1A	30VA	0.2/0.5S	Post-type
LMZD-35/1000	35kV	1000A	5A/1A	30VA	0.2/0.5S	Post-type

8.2 Voltage Transformer (PT/VT)

8.2 Voltage Transformer

Model	Voltage Ratio	Rated Burden	Accuracy Class	Insulation Level	Mounting
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JDZX10-12/0.1	10/sqrt3 / 0.1/sqrt3 : 0.307A	50VA	0.2/0.5/3P	12/42/75kV	Post-type
JDZX10-12/0.1F	10/sqrt3 / 0.1/sqrt3 : 0.100VA	100VA	0.2/0.5/3P	12/42/75kV	Post-type
JDZ10-12/100	10 / 0.1	50VA	0.2/0.5	12/42/75kV	Post-type
JDZ10-12/100F	10 / 0.1	100VA	0.2/0.5	12/42/75kV	Post-type
JDZXW-35/0.1	35/sqrt3 / 0.1/sqrt3 : 0.100VA	100VA	0.2/0.5/3P	40.5/95/200kV	Post-type
JDZ10-35/100	35 / 0.1	100VA	0.2/0.5	40.5/95/200kV	Post-type

9. HIGH VOLTAGE CIRCUIT BREAKERS

9. HV CIRCUIT BREAKERS

9.1 Indoor Vacuum Circuit Breaker (12kV)

9.1 VCB 12kV

Model	Voltage	Current	SC Breaking	SC Withstand	Mech. Life	Note
VS1-12/630-25	12kV	630A	25kA	25kA/4s	20000 ops	For KYN28
VS1-12/1250-25	12kV	1250A	25kA	25kA/4s	20000 ops	For KYN28
VS1-12/1250-31.5	12kV	1250A	31.5kA	31.5kA/4s	20000 ops	For KYN28
VS1-12/1600-31.5	12kV	1600A	31.5kA	31.5kA/4s	20000 ops	For KYN28
VS1-12/2000-31.5	12kV	2000A	31.5kA	31.5kA/4s	10000 ops	For KYN28
VS1-12/2500-31.5	12kV	2500A	31.5kA	31.5kA/4s	10000 ops	For KYN28
VS1-12/3150-40	12kV	3150A	40kA	40kA/4s	10000 ops	For KYN28
ZN63A-12/630-25	12kV	630A	25kA	25kA/4s	30000 ops	Compact
ZN63A-12/1250-31.5	12kV	1250A	31.5kA	31.5kA/4s	30000 ops	Compact
ZN63A-12/1600-31.5	12kV	1600A	31.5kA	31.5kA/4s	20000 ops	Compact
YS1-12/630-25	12kV	630A	25kA	25kA/4s	20000 ops	For Y-series
YS1-12/1250-31.5	12kV	1250A	31.5kA	31.5kA/4s	20000 ops	For Y-series
YS1-12/2500-40	12kV	2500A	40kA	40kA/4s	10000 ops	For Y-series
YS1-12/3150-40	12kV	3150A	40kA	40kA/4s	10000 ops	For Y-series

9.2 Indoor VCB (33kV / 40.5kV)

9.2 VCB 33kV/40.5kV

Model	Voltage	Current	SC Breaking	SC Withstand	Mech. Life	Note
VS1-40.5/1250-25	40.5kV	1250A	25kA	25kA/4s	10000 ops	For KYN61
VS1-40.5/1600-25	40.5kV	1600A	25kA	25kA/4s	10000 ops	For KYN61
VS1-40.5/2000-31.5	40.5kV	2000A	31.5kA	31.5kA/4s	10000 ops	For KYN61
VS1-40.5/2500-31.5	40.5kV	2500A	31.5kA	31.5kA/4s	10000 ops	For KYN61
YS1-40.5/1250-25	40.5kV	1250A	25kA	25kA/4s	10000 ops	For XGN
YS1-40.5/2000-31.5	40.5kV	2000A	31.5kA	31.5kA/4s	10000 ops	For XGN
YS1-40.5/3150-31.5	40.5kV	3150A	31.5kA	31.5kA/4s	10000 ops	For XGN

10. LOW VOLTAGE CIRCUIT BREAKERS

10. LV CIRCUIT BREAKERS

10.1 Air Circuit Breaker (ACB)

10.1 ACB

Model	Frame	Current Range	Voltage	Icu (Breaking)	Ics (Service)	Poles
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DW45-1600	1600A	630-1600A	400V/690V	80kA	50kA	3P/4P
DW45-2000	2000A	800-2000A	400V/690V	80kA	50kA	3P/4P
DW45-3200	3200A	1250-3200A	400V/690V	100kA	65kA	3P/4P
DW45-4000	4000A	1600-4000A	400V/690V	100kA	65kA	3P/4P
DW45-6300	6300A	2500-6300A	400V/690V	120kA	80kA	3P/4P
DW50-1600	1600A	630-1600A	400V/690V	65kA	40kA	3P/4P
DW50-2000	2000A	800-2000A	400V/690V	80kA	50kA	3P/4P
DW50-3200	3200A	1250-3200A	400V/690V	100kA	65kA	3P/4P
DW50-4000	4000A	1600-4000A	400V/690V	100kA	65kA	3P/4P
DW17-1600	1600A	630-1600A	400V/690V	65kA	40kA	3P/4P
DW17-2000	2000A	800-2000A	400V/690V	80kA	50kA	3P/4P
DW17-3200	3200A	1250-3200A	400V/690V	80kA	50kA	3P/4P
DW17-4000	4000A	1600-4000A	400V/690V	100kA	65kA	3P/4P

10.2 Moulded Case Circuit Breaker (MCCB)

10.2 MCCB

Model	Frame	Current Range	Voltage	I _{cu}	I _{cs}	Poles
CM1-63	63A	10-63A	400V	25kA	12.5kA	3P/4P
CM1-100	100A	16-100A	400V	35kA	17.5kA	3P/4P
CM1-160	160A	80-160A	400V	35kA	17.5kA	3P/4P
CM1-225	225A	125-225A	400V	35kA	17.5kA	3P/4P
CM1-400	400A	200-400A	400V	50kA	25kA	3P/4P
CM1-630	630A	315-630A	400V	50kA	25kA	3P/4P
CM1-800	800A	400-800A	400V	65kA	32.5kA	3P/4P
CM1-1250	1250A	630-1250A	400V	65kA	32.5kA	3P/4P
NM1-63	63A	10-63A	400V	35kA	17.5kA	3P/4P
NM1-100	100A	16-100A	400V	50kA	25kA	3P/4P
NM1-160	160A	80-160A	400V	50kA	25kA	3P/4P
NM1-225	225A	125-225A	400V	50kA	25kA	3P/4P
NM1-400	400A	200-400A	400V	65kA	32.5kA	3P/4P
NM1-630	630A	315-630A	400V	65kA	32.5kA	3P/4P
NM1-800	800A	400-800A	400V	80kA	40kA	3P/4P
NM1-1250	1250A	630-1250A	400V	80kA	40kA	3P/4P
SCM1-63	63A	10-63A	400V	35kA	17.5kA	3P/4P
SCM1-100	100A	16-100A	400V	50kA	25kA	3P/4P
SCM1-225	225A	125-225A	400V	50kA	25kA	3P/4P
SCM1-400	400A	200-400A	400V	65kA	32.5kA	3P/4P
SCM1-630	630A	315-630A	400V	65kA	32.5kA	3P/4P

10.3 Miniature Circuit Breaker (MCB)

10.3 MCB

Model	Current Range	Voltage	Breaking	Trip Curve	Poles	Width
DZ47-10	1-10A	230V/400V	4.5kA	C-type/D-type	1P/2P/3P/4P	18mm/P
DZ47-16	1-16A	230V/400V	4.5kA	C-type/D-type	1P/2P/3P/4P	18mm/P
DZ47-20	1-20A	230V/400V	4.5kA	C-type/D-type	1P/2P/3P/4P	18mm/P

DZ47-25	1-25A	230V/400V	6kA	C-type/D-type	1P/2P/3P/4P	18mm/P
DZ47-32	1-32A	230V/400V	6kA	C-type/D-type	1P/2P/3P/4P	18mm/P
DZ47-40	1-40A	230V/400V	6kA	C-type/D-type	1P/2P/3P/4P	18mm/P
DZ47-63	1-63A	230V/400V	10kA	C-type/D-type	1P/2P/3P/4P	18mm/P
NB1-63	1-63A	230V/400V	6kA	C-type/D-type	1P/2P/3P/4P	18mm/P
NB1-125	1-125A	230V/400V	10kA	C-type/D-type	1P/2P/3P/4P	27mm/P

Note: C-type for general distribution (5-10In instant trip). D-type for motor circuits (10-20In instant trip).

11. OTHER PRODUCTS

11. OTHER PRODUCTS

Product Name	Model/Spec	Key Parameters	Application
Reactive Compensation Cabinet	JKR-xxx	60-600kVar, 400V	Power factor correction, loss reduction
Grounding Transformer	DKSC-xxx/xxx	100-1600kVA, 35/0.23kV	Neutral grounding system
Arc Suppression Coil	YHDCZ-xxx	25-600A, 10-35kV	Distribution network ground fault protection
Wall Bushing	CWWL-12/630	12kV, 630A	HV insulation bushing
Metal Oxide Arrestor	YH5WZ-10/27	10kV, residual 27kV	Over-voltage protection
Control Cabinet	PK-xxx	IP44-IP65	Auxiliary equipment control
Busbar Duct	CFW-xxxA	400-6300A	Distribution system busbar connection
Cable Branch Box	DFK-xxx	12kV/400V	Cable branch and transfer

12. IRAN PROJECT NOTES

12. IRAN PROJECT NOTES

12.1 Voltage & Frequency Standards

12.1 Voltage & Frequency

Voltage Level	Typical Value	Frequency	Note
Transmission	230kV / 400kV	50Hz	Iran main grid
Distribution (HV)	11kV / 33kV / 63kV	50Hz	33kV common in industrial areas
Distribution (MV)	6.6kV / 10kV	50Hz	Some older urban areas
Low Voltage	400V/230V (3P4W)	50Hz	400V industrial / 230V residential

12.2 Certification & Compliance

12.2 Certification

Certification	Description	Note
CCC	China Compulsory Certification	Required for China market
ISO 9001	Quality Management System	Factory must have
ISO 14001	Environmental Management System	Factory must have
CE	European Conformity	Europe export standard
CQC	China Quality Certification	Optional, builds confidence
IEC Standards	IEC 60076(Transformer), IEC 60271(Switch)	Builds confidence
Type Test Report	By 3rd party authority	Often required by key clients

12.3 Climate Adaptation Recommendations

12.3 Climate Adaptation

Climate Type	Typical Region	Product Recommendation	Special Requirements
Desert High Temp	Central/Eastern	Transformer derate 10-15%	Anti-high-temp coating, enhanced cooling
Salt Fog	Caspian coast	Metal parts enhanced anti-rust	Hot dip galvanize+spray paint / IP55+
Sandstorm	Central plateau	Switchgear must be well sealed	Gasket seal, filtered ventilation
High Altitude	Mountain >2000m	Increase electrical clearance	Correct per GB/T 20626.1

13. SELECTION FORM

13. SELECTION FORM

Please fill in for quotation within 24 hours:

Item	Content
Project Name	
Location	
Project Type	New / Expansion / Retrofit / Standby Power
Expected Delivery	
Product Selection	
PV Modules	Mono/Poly/Bifacial/Half-cut Qty: ____ Power: ____
PV Inverters	String/Central/Hybrid Qty: ____ Power: ____
Storage Battery	Battery Pack/Cabinet/Container Energy: ____
Transformer	Oil-immersed/Dry-type Qty: ____ Rating: ____
Generator	Household/Diesel/Gas/Mobile Qty: ____ Power: ____
HV Switchgear	KYN28/KYN61/XGN Qty: ____ Voltage: ____
LV Switchgear	GGD/GCS/GCK/MNS Qty: ____ Current: ____
HV Circuit Breaker	VS1/YS1/ZN63 Qty: ____ Current: ____
LV Circuit Breaker	ACB/MCCB/MCB Qty: ____ Current: ____
Box Substation	Qty: ____ Rating: ____ HV: ____
Other Products	Please describe: _____
Technical Parameters	
Voltage Level	
Frequency	50Hz (Iran Standard)
Special Requirements	

ZIYAO ELECTRIC CO., LTD.
Email: daiqing20020216@gmail.com

We will provide detailed quotation within 24 hours.

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