

Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



Seite von
Page 1 of 7

Auftraggeber / Applicant:	Shenzhen Kstar New Energy Company Limited. Address: Kstar High Tech Park, Guangming High Technology Town, Gongming Street, Baoan District 516229 Shenzhen City, Guangdong Province PEOPLE'S REPUBLIC OF CHINA			
Fertigungsstätte / Production facility:	Shenzhen Kstar New Energy Company Limited. Address: Kstar High Tech Park, Guangming High Technology Town, Gongming Street, Baoan District 516229 Shenzhen City, Guangdong Province PEOPLE'S RE-PUBLIC OF CHINA			
Geräteart / Type of equipment:	PV grid-connected inverter			
Typenbezeichnung / Type/model:	KSG-10K, KSG-12K, KSG-15K, KSG-17K and KSG-20K			
Seriennr. / Serial no.:	N/A			
Nennspannung/Frequenz / Rated voltage/frequency:	See description on page 2			
Nennaufnahme/Nennstrom / Rated input power/current:	See description on page 2			
Anschlußdaten-Hydraulik / Connection to hydraulic power:	N/A			
Anschlußdaten-Pneumatik / Connection to pneumatic power:	N/A			
Anschlußdaten-Wasser / Connection to water installation:	N/A			
Gewicht / weight:	See description on page 2			
Lärmemission / noise emission (dB A):	<60 dBA			
Ausführung / Construction:	Ortsfest	Stationary	<input checked="" type="checkbox"/>	
	Ortsveränderlich	Portable	<input type="checkbox"/>	
	Handgerät	Hand-held	<input type="checkbox"/>	
	Einbaugerät	Open-frame	<input type="checkbox"/>	
Schutzklasse / Protection class:	Schutzklasse I:	Schutzleiteranschluß	PE-connection	<input checked="" type="checkbox"/>
	Schutzklasse II:	Schutzisoliert	Double insulation	<input type="checkbox"/>
	Schutzklasse III:	Schutzkleinspannung/ interne Stromversorgung	SELV/internally powered	<input type="checkbox"/>
Schutzart / Degree of protection against liquids:	IP 65			<input checked="" type="checkbox"/>
Anschlußart / Supply connection:	Feste Anschlußleitung	Non detachable cord		<input type="checkbox"/>
	Fester Anschluß	Permanent connection		<input checked="" type="checkbox"/>
	Gerätesteckvorrichtung	Appliance inlet		<input type="checkbox"/>
Netzbetriebsart / Rated operation:	Dauerbetrieb	Continuous operation		<input checked="" type="checkbox"/>
	Aussetzbetrieb	Intermittent operation		<input type="checkbox"/>
	Kurzzeitbetrieb	Short time operation		<input type="checkbox"/>
Material:	a) Gehäuse / Enclosure: Painted steel			
	b) Leiterplatten / p.c.b.: UL 94, V-0			
Zusätzliche Angaben für Laser, Klassifizierung nach EN 60825	Additional information for Laser equipment, classification according to EN 60825			
Klasse / Class:	N/A			
Wellenlänge / Wavelength:	N/A			
Pulsdauer / Pulse duration:	N/A			

Prüfbericht Nr. / Test Report No.: 64.290.16.00037.02

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Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



Seite von
Page 2 of 7

PV interactive inverter technical description:

Model:	KSG-10K	KSG-12K	KSG-15K	KSG-17K	KSG-20K
Maximum rated d.c. input voltage (Vdc.)	1000	1000	1000	1000	1000
PV input operating voltage range (V)	480-800	480-800	480-800	480-800	480-800
Maximum operating PV input current (A)	13Ax2	13Ax2	21Ax2	21Ax2	21Ax2
Maximum total PV array s-c current (A)	15Ax2	15Ax2	23Ax2	23Ax2	23Ax2
a.c. output voltage range(V)	3/N/PE, 400/230V	3/N/PE, 400/230V	3/N/PE, 400/230V	3/N/PE, 400/230V	3/N/PE, 400/230V
Nominal a.c. output frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Maximum continuous a.c. output current(A)	15	18	22	25	29
Maximum continuous a.c. output power(kW)	10	12	15	17	20
Power factor range	0.8 under-excited to 0.8 over-excited	0.8 under-excited to 0.8 over-excited	0.8 under-excited to 0.8 over-excited	0.8 under-excited to 0.8 over-excited	0.8 under-excited to 0.8 over-excited
Protection class	I	I	I	I	I
IP code	IP65	IP65	IP65	IP65	IP65
Weight (kg):	35.4	35.4	39.1	39.1	39.1

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Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



Seite von 7
Page 3 of 7

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Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
Metal enclosure	shenzhen anpeng electric power equipment Co., Ltd	SECC	Plainted Steel. Size:645x550x225mm, min. thickness=1.2mm	IEC 62109-1 IEC 62109-2	Tested with appliance
Heatsink (10-12kw)	Shenzhen rongguang Electronic Machinery EquipmentCo., Ltd	AL6063 T5	Aluminium alloy, Size:509x330x58 mm	IEC 62109-1 IEC 62109-2	Tested with appliance
Heatsink (15-20kw)	Shenzhen Hongxingfu Metal & Electronics Products Co.,LTD	AL6063 T5	Aluminium alloy, Size:509x330x80.5 mm	IEC 62109-1 IEC 62109-2	Tested with appliance
PV connector (4 pairs is supplied)	Phoenix Contact	PV-FT-CM-C-4 PV-FT-CF-C-4	1500V 40A, IP 65, UL 94 V-0	EN 50520	VDE 40031807
AC terminal block	Shenzhen Connection Electronic Co.,Ltd	DRTB8-NR 5P	50A/600V	--	UL E304128
Internal earthing wire	Cable-Net Industries Limited	UL1015 12AWG	12AWG 105°C 600V	--	UL E198417
Internal PV/AC wire	3Q WIRE&CABLE CO.,LTD.	UL10269	10AWG 105°C 1000V	--	UL E341104
DC Filter Inductor (L1,L3)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3811-0031	N1(1-2):PEW-H 1.0mH min N2(3-4): PEW-H 1.0mH min	IEC 62109-1 IEC 62109-2	Tested with appliance
-alternative	BO LUO DA XIN ELECTRONIC CO.,LTD	3811-0031	Same as above	IEC 62109-1 IEC 62109-2	Tested with appliance
-Wire	Pacific Electric Wire & Cable Co., Ltd.	MW30	Modified Polyester Copper Wire PEWH, rating 180°C	--	UL E201757
-alternative	TAI-I ELECTRIC WIRE & CABLE CO LTD	MW30	Modified Polyester Copper Wire PEWH, rating 180°C	--	UL E85640
-Varnish	Hang Cheung Petro Chemical	8562/C	--	--	UL E200154
AC Filter Inductor (L4)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3811-0667	N1(1-2): 1.3mH min N2(3-4): 1.3mH min N2(5-6): 1.3mH min	IEC 62109-1 IEC 62109-2	Tested with appliance
-alternative	BO LUO DA XIN ELECTRONIC CO.,LTD	3811-0667	Same as above	IEC 62109-1 IEC 62109-2	Tested with appliance
-Wire	JUNG SHING WIRE CO LTD	--	PEW, rating 155°C	--	UL E174837
-alternative	TAI-I ELECTRIC WIRE & CABLE CO LTD	--	UEWF @, rating 155°C	--	UL E85640
-alternative	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	--	PEWF/U, rating 155°C	--	UL E201757
-alternative	XINGNING JINYAN ELECTRICAL CO LTD	--	xPEW, rating 155°C	--	UL E238500
-alternative	HOI LUEN ELECTRICAL MFR CO LTD	--	xPEW, rating 155°C	--	UL E164409

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Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



Seite von 7
Page 4 of 7

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-alternative	DONGGUAN YIDA INDUSTRIAL CO LTD	--	*PEW, rating 155°C	--	UL E344055
-Varnish	WU JIANG TAIHU INSULATING MATERIAL CO LTD	T-4260(a)	POLYSTER	--	UL E233623
AC Inductor (boost circuit)(10-12kw)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3811-0678	φ1.7*2P EIW, 1.6mH	IEC 62109-1 IEC 62109-2	Tested with appliance
-alternative	BO LUO DA XIN ELECTRONIC CO.,LTD	3811-0678	φ1.7*2P EIW, 1.6mH	IEC 62109-1 IEC 62109-2	Tested with appliance
-Wire	JUNG SHING WIRE CO LTD	--	PEW, rating 155°C	--	UL E174837
-alternative	TAI-I ELECTRIC WIRE & CABLE CO LTD	--	UEWF @, rating 155°C	--	UL E85640
-alternative	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	--	PEWF/U, rating 155°C	--	UL E201757
-alternative	XINGNING JINYAN ELECTRICAL CO LTD	--	xPEW, rating 155°C	--	UL E238500
-alternative	HOI LUEN ELECTRICAL MFR CO LTD	--	xPEW, rating 155°C	--	UL E164409
-alternative	DONGGUAN YIDA INDUSTRIAL CO LTD	--	*PEW, rating 155°C	--	UL E344055
-TUBE	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD	RSFR-H	SHRINKABLE POLYOLEFIN TUBING IRRADIAED FLEXIBLE HEAT,125°C	--	UL E203950
-VARNISH	WU JIANG TAIHU INSULATING MATERIAL CO LTD	T-4260(a)	POLYSTER	--	UL E233623
AC Inductor (INV circuit)(15-20kw)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3811-0666	φ2.1*2P EIW, 0.715mH	IEC 62109-1 IEC 62109-2	Tested with appliance
-alternative	BO LUO DA XIN ELECTRONIC CO.,LTD	3811-0666	φ2.1*2P EIW, 0.715mH	IEC 62109-1 IEC 62109-2	Tested with appliance
-Wire	JUNG SHING WIRE CO LTD	--	PEW, rating 155°C	--	UL E174837
-alternative	TAI-I ELECTRIC WIRE & CABLE CO LTD	--	UEWF @, rating 155°C	--	UL E85640
-alternative	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	--	PEWF/U, rating 155°C	--	UL E201757
-alternative	XINGNING JINYAN ELECTRICAL CO LTD	--	xPEW, rating 155°C	--	UL E238500
-alternative	HOI LUEN ELECTRICAL MFR CO LTD	--	xPEW, rating 155°C	--	UL E164409
-alternative	DONGGUAN YIDA INDUSTRIAL CO LTD	--	*PEW, rating 155°C	--	UL E344055
-TUBE	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD	RSFR-H	SHRINKABLE POLYOLEFIN TUBING IRRADIAED FLEXIBLE HEAT,125°C	--	UL E203950
-VARNISH	WU JIANG TAIHU INSULATING MATERIAL CO LTD	T-4260(a)	POLYSTER	--	UL E233623

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Data form for electrical equipment and machinery



Seite von 7
Page 5 of 7

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DC Inductor (Boost Circuit)(10-12kw)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3811-0676	Φ 2.1*1EIW 2.26mH	IEC 62109-1 IEC 62109-2	Tested with appliance
-alternative	BO LUO DA XIN ELECTRONIC CO.,LTD	3811-0676	Φ 2.1*1EIW 2.26mH	IEC 62109-1 IEC 62109-2	Tested with appliance
DC Inductor (Boost Circuit) (15-20kw)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3811-0665	Φ1.7*2P EIW,1.6mH	IEC 62109-1 IEC 62109-2	Tested with appliance
-alternative	BO LUO DA XIN ELECTRONIC CO.,LTD	3811-0665	Φ1.7*2P EIW,1.6mH	IEC 62109-1 IEC 62109-2	Tested with appliance
-Wire	JUNG SHING WIRE CO LTD	--	PEW, rating 155°C	--	UL E174837
-alternative	TAI-I ELECTRIC WIRE & CABLE CO LTD	--	UEWF @, rating 155°C	--	UL E85640
-alternative	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	--	PEWF/U, rating 155°C	--	UL E201757
-alternative	XINGNING JINYAN ELECTRICAL CO LTD	--	xPEW, rating 155°C	--	UL E238500
-alternative	HOI LUEN ELECTRICAL MFR CO LTD	--	xPEW, rating 155°C	--	UL E164409
-alternative	DONGGUAN YIDA INDUSTRIAL CO LTD	--	*PEW, rating 155°C	--	UL E344055
-Tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD	180° C PF	PFNON- WOVEN CLOTH ADHESIVE TAPE THICKNESS:0.05mm	--	UL E165111
-VARNISH	WU JIANG TAIHU INSULATING MATERIAL CO LTD	T-4260(a)	POLYSTER	--	UL E233623
Transformer in Communication Circuit (TX1)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3801-2296	pri: N2(pin8-10)Φ0.4*2P(2uew-B) 20TS N3(pin6-7)Φ0.2*1P(2uew-B) 14TS Sec.: N1(pin5-4)Φ0.3*2P(TEX-E) 8TS N4(pin2-3)Φ0.3*2P(TEX-E) 2TS	IEC 62109-1 IEC 62109-2	Tested with appliance
-Alternative	SUZHOU CORMEX ELECTRONICS CO., LTD	3801-2296	Same as above.	IEC 62109-1 IEC 62109-2	Tested with appliance
-BOBBIN	SUMITOMO BAKELITE CO.,LTD	PHENOLIC PM9820	UL94V-0	--	UL E41429
-MAGNE WIRE	PACIFIC ELECTRIC WIRE & CABLE CO LTD	Polyurethane enameled	Copper Wire:UEW/U Thermal Rating 130°C	--	UL E201757
-Alternative	TAI-I ELECTRIC WIRE & CABLE CO LTD	Polyurethane enameled	Copper Wire:UEW/U Thermal Rating 130°C	--	UL E85640
-TRIPLE WIRE	FURUKAWA ELECTRIC CO.,LTD	TRIPLE INSULATION WIRE	Copper wire:TES-E Thermal Tating 130°C	--	UL E206440
-Mylar TAPE	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	Polyimide Film TYPE	CT Rating Thermal 130°C, yellow, CTI>600V	--	UL E165111

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Data form for electrical equipment and machinery



Seite von 7
Page 6 of 7

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-Margin TAPE	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	Nonwoven Cloth TYPE	WF Rating Thermal 130°C	--	UL E165111
-TUBE	GREAT HOLDING INDUSTRIAL CO LTD	TFL	Rating: 200°C	--	UL E156256
-VARNISH	JONHN C DOLPH CO	BC-346A	--		UL E317427
Assistant Power Transfomer (TX01)	SHENZHEN CLICK TECHNOLOGY CO.,LTD	3801-2316	pri: N1(pin6-7)Φ0.2*1P(2uew-B) 40TS N6(pin7-8)Φ0.2*1P(2uew-B) 40TS N5(pin9-10)Φ0.2*1P(2uew-B) 14TS Sec.: N7(pin1-2)Φ0.2*1P(2UEW-B) 13TS N2(pin2-4)Φ0.35*5P(2UEW-B) 8TS N3(pin4-3)Φ0.35*5P(2UEW-B) 3TS N4(pin3-5)Φ0.35*5P(2UEW-B) 2TS	IEC 62109-1 IEC 62109-2	Tested with appliance
-Alternative	SUZHOU CORMEX ELECTRONICS CO., LTD	3801-2316	Same as above.	IEC 62109-1 IEC 62109-2	Tested with appliance
- CORE	YIBIN JINCHUAN ELECTRONICS CO.,LTD	--	EI30 RM2.3KD	IEC 62109-1 IEC 62109-2	Tested with appliance
-Alternative	HENGDIAN GROUP DMEGC MAGNETICS CO.,LTD	--	EI30 DMR40	IEC 62109-1 IEC 62109-2	Tested with appliance
- BOBBIN	SUMITOMO BAKELITE CO LTD	PHENOLIC PM9820	UL 94V-0		UL E41429
-MAGNE WIRE	PACIFIC ELECTRIC WIRE & CABLE CO LTD	Polyurethane enameled	Copper Wire:UEW/U Thermal Rating 130°C	--	UL E201757
-Alternative	TAI-I ELECTRIC WIRE & CABLE CO LTD	Polyurethane enameled	Copper Wire:UEW/U Thermal Rating 130°C	--	UL E85640
-Mylar TAPE	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	Polyimide Film TYPE	CT Rating Thermal 130°C	--	UL E165111
-Margin TAPE	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	Nonwoven Cloth TYPE	WF Rating Thermal 130°C	--	UL E165111
-TUBE	GREAT HOLDING INDUSTRIAL CO LTD	--	TFL 200°C	--	UL E156256
-VARNISH	JONHN C DOLPH CO	BC-346A	--	--	UL E317427
Mosfet (Q1 to Q12)	FAIRCHILD	FGA60N65SMD	60A 650V	IEC 62109-1 IEC 62109-2	Tested with appliance
Bus cap(C19 to C23)	Nippon chemi-con	470UF 500V	470UF 500V 105°C	IEC 62109-1 IEC 62109-2	Tested with appliance
Relay (RY1 to RY6) (10-12kw)	SHENZHEN SONGCHUAN	832A-1A-F-C-BH	30A/250Vac	IEC 61810-1	VDE 6615

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Seite von 7
Page 7 of 7

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Relay (RY1 to RY6) (15-20kw)	Tyco Electronics	T9SV1K15-12	35A/250Vac	IEC 61810-1	VDE 40030974
Varistor (MOV10,MOV11,MOV12)	Shantou High-New Technology Dev. Zone songtian Enterprise Co.,Ltd	STE-20D621K	V1mA= 620V	IEC 61051-1 IEC 61051-2	VDE 40023049
Varistor (MOV1, MOV3, MOV4, MOV6,MOV 10-MOV14)	Shantou High-New Technology Dev. Zone songtian Enterprise Co.,Ltd	SET-20D102K	V1mA= 1000V	IEC 61051-1 IEC 61051-2	VDE 40023049
X cap (C49,C51,C52,C56,C58,C60)	Shenzhen Jinghao Capacitor Co.,Ltd	2.2uF 305Vac	X2, 2.2uF 305Vac	IEC 60384-14	VDE 40018690
Y1 cap (C50,C55,C59)	songtian Enterprise Co.,Ltd	472M 400Vac	Y1, 472M 400Vac	IEC 60384-14	VDE 40025754
Optocoupler (U1)	Cosmo Electronics Corp.	K1010-4C	80V ,Viso:5000Vrms	EN 60747	VDE 101347
current sensor (HCT4,HCT5, HCT6)	VACUUMSCHMELZE GMBH & CO KG	N4646-X410	9PIN, 50A	--	UL E317483
current sensor (HCT1)	VACUUMSCHMELZE GMBH & CO KG	T60404-N4646-X400	9PIN, 25A	--	UL E317483
Fan	Nidec	U60T12MUA7-52	12VDC/0.16A 4600RPM		TUV B120928002066
NTC	SHENZHEN KEMIN	15KH4150	model:, R ₂₅ =15KΩ ± 1%	--	UL E356449
Fuse(F1-F6)	LITTELFUSE	314030.	30A/250Vac	--	UL E10480
PCB	Huizhou Trustwin Electronics Development	TW-4	V-0 @ min 0.08mm, 130°C	--	UL E340729
Material of Plastic cover for protective LCD	LG Chemical (Guangzhou) Engineering Plastics Co., Ltd.	LUPOY GP-1006F(f1), LUPOY GP-1006F(m)(f1)	V-0, 120 °C	--	UL E248280

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