

Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



China

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Auftraggeber / Applicant:	LDK Solar Co.,Ltd. Hi-Tech Industrial Park, 338032, Xinyu, Jiangxi, P.R.China.		
Fertigungsstätte / Production facility:	LDK SOLAR HI-TECH(NANCHANG)CO.,LTD. No 189, Dongyuan Road, High-Tech Industrial Development Zone, 330096 NanChang, Jiangxi, P. R. China		
China	LDK SOLAR HI-TECH (SUZHOU) CO.,LTD. Technology Park, Wuzhong District, 215104 Suzhou, Jiangsu, P. R. China.		
Geräteart / Type of equipment:	Mono-crystalline Silicon Photovoltaic (PV) Module		
Typenbezeichnung / Type/model:	a)	LDK-240D-20, LDK-235D-20, LDK-230D-20, LDK-225D-20, LDK-220D-20, LDK-215D-20, LDK-210D-20, LDK-205D-20, LDK-200D-20.	
	b)	LDK-190D-24, LDK-185D-24, LDK-180D-24, LDK-175D-24, LDK-170D-24, LDK-165D-24, LDK-160D-24.	
Seriennr. / Serial no.:	---		
Rated Output Power at STC:	a)240W, 235W,230W, 225W,220W,215W, 210W, 205W,200W; b)190W, 185W, 180W, 175W, 170W, 165W, 160W.		
Minimum Value of Output Power at STC:	N/A		
Maximum System Voltage:	1000 V DC		
Dimensions (l x w x h) [mm]:	a) 1642x994x40; b) 1586x808x40.		
Gewicht / weight:	a) 20 kg; b) 15.6kg		
Cell technology:	Monocrystalline Silicon	<input checked="" type="checkbox"/>	
	Polycrystalline Silicon	<input type="checkbox"/>	
	Thin-film (amorphous Silicon)	<input type="checkbox"/>	
	CIGS	<input type="checkbox"/>	
	CdTe	<input type="checkbox"/>	
Application classes:	Class	A: General access, hazardous voltage, hazardous power applications	<input checked="" type="checkbox"/>
:	Class	B: Restricted access, hazardous voltage, hazardous power applications	<input type="checkbox"/>
	Class	C: Limited voltage, limited power applications	<input type="checkbox"/>
Schutzart / Degree of protection against liquids:	IP X0		<input type="checkbox"/>
Anschlußart / Types of terminations:	Type A: wire of flying lead		<input type="checkbox"/>
	Type B: tags, threaded stubs, screws, etc.		<input type="checkbox"/>
	Type C: connector		<input checked="" type="checkbox"/>
	Junction box		<input checked="" 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"/>
Protection devices:	By-pass Diode		<input checked="" type="checkbox"/>
	Fuse		<input type="checkbox"/>

Prüfbericht Nr. / Test Report No.: 70.406.09.095.01-04

Ort / place: Nanchang

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Revised date: 2010-09-17

Projektleiter / Project Engineer:

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Other



Prüfbericht Nr. / Test Report No.: 70.406.09.095.01-04

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Materials:

Front Glass	Tempered	<input checked="" type="checkbox"/>	
	Normal	<input type="checkbox"/>	
	Other	<input type="checkbox"/>	
Encapsulant	EVA	<input checked="" type="checkbox"/>	
	Other	<input type="checkbox"/>	
Backsheet	TPT	<input checked="" type="checkbox"/>	
	Other:	<input type="checkbox"/>	
Frame	Aluminium	<input checked="" type="checkbox"/>	
	Other	<input type="checkbox"/>	
Frameless		<input type="checkbox"/>	
Mechanical load			<input type="checkbox"/>
	2400Pa		<input type="checkbox"/>
	5400Pa		<input checked="" type="checkbox"/>
	Other	<input type="checkbox"/>	

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Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen)
(Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschranken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen)

Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)

(emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers -PLC, hydraulic controllers, pneumatic controllers)

Bauteil / Kind of component	Hersteller / Manufacturer	Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse/ Information about type, current, power, transformer specification number, insulating class	Prüfzeichen von Test mark from (VDE, BSI, UL etc.)
1. Cells	a) Canadian Solar Inc.	CC6M, Mono-Si , 156x156 mm, Thickness: 200±20µm Two bus-bars. (used for LDK-240D-20 family)	Test with appliance
	b) Canadian Solar Inc.	CC5M, Mono-Si , 125x125 mm, Thickness: 200±20µm Two bus-bars.(used for LDK-175D-24 family)	Test with appliance
	c) Gintech Energy Corporation.	LDK,125x125 mm, Thickness: 200±20µm, Two bus-bars. (used for LDK-175D-24 family)	Test with appliance
	d) JingAo Solar Co.,Ltd	156S(R200),Mono-Si, 156x156mm,thickness 190±20µm. Two bus-bars. (used for LDK-240D-20 family)	Test with appliance
	e) JingAo Solar Co.,Ltd.	125SL(R165),Mono-Si, 125x125mm,thickness 190±20µm. Two bus-bars.(used for LDK-175D-24family).	Test with appliance
2. Superstrate	1. China Southern Glass Holding Co.,Ltd.	Tempered Glass, a) 1636x988x3.2mm b) 1580x802x3.2mm.	Test with appliance.
	2 Taicang Pilkington China Glass Special Glass Special Ltd	Tempered Glass, a) 1636x988x3.2mm , Variable glass thinkness 4mm. b) 1580x802x3.2mm, Variable glass thinkness 4mm.	Test with appliance
	3 Zhejiang Jiafu Glass Co.,Ltd.	Tempered Glass, a) 1636x988x3.2mm , Variable glass thinkness 4mm. b) 1580x802x3.2mm, Variable glass thinkness 4mm	Test with appliance
	4.Anhui Antai glass.co.,Ltd	Tempered Glass, a) 1636x988x3.2mm , Variable glass thinkness 4mm. b) 1580x802x3.2mm, Variable glass thinkness 4mm	Test with appliance
	5. XinYi PV Products (Anhui) Holdings Ltd.	Tempered Glass, a) 1636x988x3.2mm , Variable glass thinkness 4mm. b) 1580x802x3.2mm, Variable glass thinkness 4mm	Test with appliance
3. Encapsulant	Bridgestone Corporation	EVA, S-11	Test with appliance
4. Substrate	1) KREMPEL Group 2) Toppan Printing CO., LTD. 3) 3M (combined with huitian adhesive and Junction box PV-RH701)	TPT, 25/250/25, PTL 3 HR 1000V TPT, 25/250/25, BS-ST1. BBF, 40.6/74.7/266.7	TÜV Rh TÜV Rh TÜV Rh

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5. Junction Box	1) Ningbo Zhonghuan Electronic Technology Co., Ltd(Used for 125x125 cell's modules)	PV-ZH009, DC 1000V, 12A, IP65, 85°C	TÜV Rh
	2) Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. (Used with 156x156 cell's modules)	PV-RH701, DC 1000V, 11A, IP65, 85°C	TÜV Rh
	3) Tyco Electronics EC Trutnov s.r.o. Komenskeho. (Used with 125x125 cell's modules)	Tyco1740971-3,DC 1000V, 13A,IP 65, 85°C.	TÜV Rh
	4) Huber+Suhner AG (Used with 156x156 cell's modules)	RH3, DC 1000V,10A,IP65, 85°C.	TÜV Rh
	5) Suzhou Huayun Photovoltaic Technology Co.,Ltd. (Used with 156x156 cell's modules)	PV-0801,DC 1000V ,13A,IP65,85°C.	TÜV SÜD
	6) Suzhou Huayun Photovoltaic Technology Co.,Ltd. (Used with 125x125cell's modules)	PV-0601,DC 1000V,8A,IP65, 85°C.	TÜV SÜD
6. Baypass diode	1)PanJit International Inc.	10SQ050, Max. peak reverse voltage 50V, Forward Rectified current 10A.	Test with appliance
	2)Tyco Electronics (Used in the Tyco junction-box)	SL1515, Max. peak reverse voltage 40V, Forward Rectified current 16A.	Test with appliance
	3) ST	D ² PAKSTPS1545CG, Max. peak reverse voltage 45V, Forward Rectified current .15A, 175°C. (used with Huber Junction box)	Test with appliance
	4)Yangzhou Yangjie Electronic Corp.(used in the Huayun Junction-box)	15SQ045, Max. peak reverse voltage 45V, Forward Rectified current 15A.	Test with appliance
7. Cable for photovoltaic equipment	1) Nanyang Cable Group Co., Ltd.	2pfg 1169, 1x4.0mm ² , DC 1.8kV, 90°C.	TÜV Rh
	2) Wuxi Xinhongye Wire & Cable	PV1-F 1x4.0mm ² , DC 1.8kV, 90°C.	TÜV Rh

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8. Connector for Photovoltaic system	Co., Ltd. 3) Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. 4) LEONI Studer AG 5) Huber+Suhner AG	PV1-F 1x4.0mm ² , DC 1.8kV, 90°C PV1-F 1 Betaflam 125 flex solar , 1x4.0mm ² , DC 1.8kV, 90°C Sodox Solarkabel PV1-F 1x4.0mm ² , DC 1.8kV, 90°C AG/ Radox, Solarkabel PV1-F.	TÜV Rh TÜV Rh TÜV Rh	
	6) Ningbo Jiangdong Yongfa Industry Co., Ltd. (combined with Huayuan Junction box)	PV1-F 1x4.0mm ² , DC 1.8kV, 90°C	TÜV Rh	
	1) Multi Contact AG 2) Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. 3) Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. 4) Tyco Electronics EC Trutnov s.r.o. Komenskeho. 5) Huber+Suhner AG	PV-KST4/6II, PV-KBT4/6II, DC 1000V, 30A, IP67, 105°C 05-1, DC 1000V, 20A, IP65, 85°C 05-6, DC 1000V, 16A, IP65, 85°C 6-1394461-2, 0-1394462-4, DC 1000V, IP65, 25A, 85°C CL+C4 black /CB-C4 black /38A , DC 1000V, 85°C.	TÜV Rh TÜV Rh TÜV Rh TÜV Rh TÜV Rh	
	6) Ningbo Free Trade Zhonghuan Electronic Technology Co., Ltd	202, DC 1000V, 16A, IP65, 85° C, Class A.	TÜV Rh	
	7) Ningbo Shihe New Energy Co., Ltd. (combined with Huanyuan Junction box)	DJ2011-4, 20A, IP65.	TÜV Rh	
	9. AL frame	1) JIANGYIN EAST-CHINA ALUMINUM TECHNOLOGY CO., LTD. 2) Guangdong Weiye Aluminium Factory Co., Ltd. 3) Guangcheng Aluminium Co., Ltd.	Anodized Aluminum Alloy, 1.8mm/6063 Anodized Aluminum Alloy, 1.8mm/6063 Anodized Aluminum Alloy, 1.8mm/6063	Test with appliance Test with appliance Test with appliance
		10. Adhesive (junction box)	a) Beijing Tonsan Adhesive Co., Ltd	1527 Test with appliance

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11. Adhesives (frame)	b) Shanghai Huitian New Chemical Material Co.,Ltd 1)Beijing Tonsan Adhesive Co.,Ltd. 2) Shanghai Huitian New Chemical Material Co.,Ltd	HT906Z 1527 HT906Z	Test with appliance Test with appliance Test with appliance
12. Marking plate:			

LDK Solar Co., Ltd.
SOLAR ENERGY SYSTEM

Module Type: LDK-175D-24

Intertek
4000300
Conforms to UL STD NO.1703
certificated to ULC/ORD-C1703-01

Rating Power at STC (Wp)	175W±3%
Rating Power Voltage (Vm)	35.9V
Rating Power Current (Im)	4.87A
Open Circuit Voltage (Voc)	44.7V
Short Circuit Current (Isc)	5.43A
Normal Operating Cell Temp (NOCT)	45 °C

All Technical Data at STC
AM 1.5 T=25 °C E=1000W/m²

Weight	15.6KG
Dimension	1586mm*808mm*40mm
Application Class	Class A
Performance Standard	IEC 61215 Ed.2 and EN 61730; UL1703

Factory address: Technology Park, Wuzhong District, Suzhou, Jiangsu, China
Tel: 86-512-82251666 Fax: 86-512-82250101

LDK Solar Co., Ltd.
SOLAR ENERGY SYSTEM

Module Type: LDK-175D-24

Intertek
3188234
Conforms to UL STD NO.1703
certificated to ULC/ORD-C1703-01

Rating Power at STC (Wp)	175W±3%
Rating Power Voltage (Vm)	35.9V
Rating Power Current (Im)	4.87A
Open Circuit Voltage (Voc)	44.7V
Short Circuit Current (Isc)	5.43A
Normal Operating Cell Temp (NOCT)	45 °C

All Technical Data at STC
AM 1.5 T=25 °C E=1000W/m²

Weight	15.6KG
Dimension	1586mm*808mm*40mm
Application Class	Class A
Performance Standard	IEC 61215 Ed.2 and EN 61730; UL1703

Factory address: No. 189 Dongyuan Road, High-tech Industrial Development Zone, Nanchang, Jiangxi, China
Tel: 86-791-8356481 Fax: 86-791-8356481

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	<div data-bbox="180 695 664 1228">  <p>LDK Solar Co., Ltd.</p> <p>Module Type: LDK-220D-20</p>   <p>Conforms to UL STD NO.1703 certificated to ULC/ORD-C1703-01</p> <table border="0"> <tr> <td>Rating Power at STC (Wp)</td> <td>220W±3%</td> </tr> <tr> <td>Rating Power Voltage (Vm)</td> <td>31.2V</td> </tr> <tr> <td>Rating Power Current (Im)</td> <td>7.05A</td> </tr> <tr> <td>Open Circuit Voltage (Voc)</td> <td>36.9V</td> </tr> <tr> <td>Short Circuit Current (Isc)</td> <td>8.01A</td> </tr> <tr> <td>Normal Operating Cell Temp (NOCT)</td> <td>45 °C</td> </tr> </table> <p>All Technical Data at STC AM 1.5 T=25 °C E=1000W/m²</p> <table border="0"> <tr> <td>Weight</td> <td>20KG</td> </tr> <tr> <td>Dimension</td> <td>1642mm*994mm*40mm</td> </tr> <tr> <td>Application Class</td> <td>Class A</td> </tr> <tr> <td>Performance Standard</td> <td>IEC 61215 Ed.2 and EN 61730; UL1703</td> </tr> </table> <p>Factory address: Technology Park, Wuzhong District, Suzhou, Jiangsu, China Tel: 86-512-82251666 Fax: 86-512-82250101</p> </div>	Rating Power at STC (Wp)	220W±3%	Rating Power Voltage (Vm)	31.2V	Rating Power Current (Im)	7.05A	Open Circuit Voltage (Voc)	36.9V	Short Circuit Current (Isc)	8.01A	Normal Operating Cell Temp (NOCT)	45 °C	Weight	20KG	Dimension	1642mm*994mm*40mm	Application Class	Class A	Performance Standard	IEC 61215 Ed.2 and EN 61730; UL1703	<div data-bbox="719 695 1203 1228">  <p>LDK Solar Co., Ltd.</p> <p>Module Type: LDK-220D-20</p>   <p>Conforms to UL STD NO.1703 certificated to ULC/ORD-C1703-01</p> <table border="0"> <tr> <td>Rating Power at STC (Wp)</td> <td>220W±3%</td> </tr> <tr> <td>Rating Power Voltage (Vm)</td> <td>31.2V</td> </tr> <tr> <td>Rating Power Current (Im)</td> <td>7.05A</td> </tr> <tr> <td>Open Circuit Voltage (Voc)</td> <td>36.9V</td> </tr> <tr> <td>Short Circuit Current (Isc)</td> <td>8.01A</td> </tr> <tr> <td>Normal Operating Cell Temp (NOCT)</td> <td>45 °C</td> </tr> </table> <p>All Technical Data at STC AM 1.5 T=25 °C E=1000W/m²</p> <table border="0"> <tr> <td>Weight</td> <td>20KG</td> </tr> <tr> <td>Dimension</td> <td>1642mm*994mm*40mm</td> </tr> <tr> <td>Application Class</td> <td>Class A</td> </tr> <tr> <td>Performance Standard</td> <td>IEC 61215 Ed.2 and EN 61730; UL1703</td> </tr> </table> <p>Factory address: No. 189 Dongyuan Road, High-Tech Industrial Development Zone, Nanchang, Jiangxi, China Tel: 86-791-8356481 Fax: 86-791-8356481</p> </div>	Rating Power at STC (Wp)	220W±3%	Rating Power Voltage (Vm)	31.2V	Rating Power Current (Im)	7.05A	Open Circuit Voltage (Voc)	36.9V	Short Circuit Current (Isc)	8.01A	Normal Operating Cell Temp (NOCT)	45 °C	Weight	20KG	Dimension	1642mm*994mm*40mm	Application Class	Class A	Performance Standard	IEC 61215 Ed.2 and EN 61730; UL1703	
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Rating at STC:						
Module:	LDK-240D-20	LDK-235D-20	LDK-230D-20	LDK-225D-20	LDK-220D-20	LDK-215D-20
open-circuit voltage [V]:	37.3	37.2	37.2	37.0	36.9	36.7
short-circuit current [A]:	8.39	8.30	8.21	8.11	8.01	7.90
voltage at max. power [V]:	32.2	32.0	31.8	31.5	31.2	30.6
current at max. power [A]:	7.45	7.35	7.23	7.15	7.05	7.03
max. power [W]:	240 ± 3%	235 ± 3%	230 ± 3%	225± 3%	220 ± 3%	215 ± 3%
Module:	LDK-210D-20	LDK-205D-20	LDK-200D-20			LDK-190D-24
open-circuit voltage [V]:	36.6	36.4	36.1			45.4
short-circuit current [A]:	7.78	7.73	7.68			5.51
voltage at max. power [V]:	29.9	29.7	29.5			37.7
current at max. power [A]:	7.02	6.91	6.78			5.05
max. power [W]:	210 ± 3%	205 ± 3%	200 ± 3%			190 ± 3%
Module:	LDK-185D-24	LDK-180D-24	LDK-175D-24	LDK-170D-24	LDK-165D-24	LDK-160D-24
open-circuit voltage [V]:	45.1	44.9	44.7	44.5	44.2	44.0
short-circuit current [A]:	5.48	5.46	5.43	5.42	5.40	5.38
voltage at max. power [V]:	36.9	36.2	35.9	35.4	35.2	35
current at max. power [A]:	5.02	4.98	4.87	4.76	4.68	4.6
max. power [W]:	185 ± 3%	180 ± 3%	175 ± 3%	170 ± 3%	165 ± 3%	160 ± 3%

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Projektleiter / Project Engineer:

Ort/place:Nanchang

Stempel und Unterschrift /
Seal and signature

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