

# 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:	Poly-crystalline Silicon Photovoltaic (PV) Module																			
Typenbezeichnung / Type/model:	a).LDK-280P-24,LDK-275P-24, LDK-270P-24, LDK-265P-24, LDK-260P-24, LDK-255P-24, LDK-250P-24, LDK-245P-24, LDK-240P-24; b). LDK-240P-20, LDK-235P-20, LDK-230P-20, LDK-225P-20, LDK-220P-20, LDK-215P-20, LDK-210P-20, LDK-205P-20, LDK-200P-20; c). LDK-210P-18, LDK-205P-18, LDK-200P-18, LDK-195P-18, LDK-190P-18, LDK-185P-18 , LDK-180P-18, d) LDK-220P-20/150, LDK-215P-20/150, LDK-210P-20/150, LDK-205P-20/150, LDK-200P-20/150, LDK-195P-20/150, LDK-190P-20/150, LDK-185P-20/150, LDK-180P-20/150. e). LDK-160P-24, LDK-165P-24, LDK-170P-24, LDK-175P-24, LDK-180P-24, LDK-185P-24, LDK-190P-24.																			
Seriennr. / Serial no.:	---																			
Rated Output Power at STC:	a)280W, 275W,270W,265W,260W,255W, 250W, 245W,240W; b)240W, 235W,230W, 225W,220W, 215W,210W,205W,200W; c) 210W, 205W, 200W, 195W, 190W, 185W,180W, d) 220W, 215W, 210W,205W,200W,195W,190W,185W,180W; e)160W,165W,170W,175W,180W,185W,190W.																			
Minimum Value of Output Power at STC:	N/A																			
Maximum System Voltage:	1000 V DC																			
Dimensions (l x w x h) [mm]:	a)1958x994x50; b)1642x994x40; c)1484x994x40, d)1582x958x40 e)1586x808x40.																			
Gewicht / weight:	a) 30.5kg; b)20kg; c)18kg, d)18.4kg, e)15.6kg																			
Cell technology:	Monocrystalline Silicon <input type="checkbox"/> Polycrystalline Silicon <input checked="" type="checkbox"/> Thin-film (amorphous Silicon) <input type="checkbox"/> CIGS <input type="checkbox"/> CdTe <input type="checkbox"/>																			
Application classes:	<table border="0"> <tr> <td>:</td> <td>Class</td> <td>A:</td> <td>General access, hazardous voltage, hazardous power applications</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>Class</td> <td>B:</td> <td>Restricted access, hazardous voltage, hazardous power applications</td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>Class</td> <td>C:</td> <td>Limited voltage, limited power applications</td> <td><input type="checkbox"/></td> </tr> </table>					:	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"/>
:	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"/>																			

Prüfbericht Nr. / Test Report No.: 70.406.09.095.02-04

Ort / place: Nanchang

Datum / date: 2009-07-09

Revised date: 2010-09-17

Projektleiter / Project Engineer:

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Protection devices:	Kurzzeitbetrieb	Short time operation	<input type="checkbox"/>
	By-pass Diode		<input checked="" type="checkbox"/>
	Fuse		<input type="checkbox"/>
	Other		<input type="checkbox"/>
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	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	1.Gintech Energy Corporation	1.LDK156M, Poly-Si , 156x156 mm, Thickness: 200±20µm. 2 bus-bars, For a),b)c) family. 2.LDK150M, Poly-Si , 150x150mm, Thickness: 200±20µm.( for d) family.) 3.LDK125M, Poly-Si ,125x125mm, Thickness: 200±20µm, (for e) family ). 4.LDK156M,Poly-si,156x156mm,Thickness : 200±30µm, 3 bus-bars, For a),b)c) family.	Test with appliance
	2.JingAo Solar Co.,Ltd.	156M,Poly-Si,156x156mm,2 bus- bars,Thickness:190±20µm,	Test with appliance
	3.Motech Industries,INC	LDK156M, Poly-si,156x156mm,Thickness 200+/-40µm.	Test with appliance
2. Superstrate	1. China Southern Glass Holding Co.,Ltd.	Tempered Glass, 1952x988x4mm / 1636x988x3.2mm / 1478x988x3.2mm,1580x802x3.2mm.	Test with appliance
	2. Taicang Pilkington China Glass Special Glass Special Ltd	Tempered Glass, 1952x988x4mm / 1636x988x3.2mm / 1478x988x3.2mm, 1580x802x3.2mm, Available glass thickness 4mm.	Test with appliance.
	3. Zhejiang Jiafu Glass Co.,Ltd.	Tempered Glass, 1952x988x4mm / 1636x988x3.2mm / 1478x988x3.2mm, 1580x802x3.2mm, Available glass thickness 4mm.	Test with appliance
	4. Anhui Antai glass.co.,Ltd.	Tempered Glass, 1952x988x4mm / 1636x988x3.2mm / 1478x988x3.2mm, 1580x802x3.2mm, Available glass thickness 4mm	Test with appliance
	5. XinYi PV Products (Anhui) Holdings Ltd.	Tempered Glass, 1952x988x4mm / 1636x988x3.2mm / 1478x988x3.2mm, 1580x802x3.2mm, Available glass thickness 4mm	Test with appliance
3. Encapsulant	Bridgestone Corporation	EVA, S-11.	Test with appliance
4. Substrate	1) KREMPEL Group	TPT, 25/250/25, PTL 3 HR 1000V	Test with appliance
	2) Toppan Printing CO., LTD.	TPT, 25/250/25, BS-ST1	Test with appliance
	3)Krempel(Gen1)/Krempel group.	TPT, PTL 3-38/250 TWH.	Test with appliance
	4) 3M (combined with Huitian adhesive and junction box PV-RH701 )	BBF, 40.6/74.7/266.7.	Test with appliance

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(Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschranken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen .....

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5. Junction Box	1) Ningbo Zhonghuan Electronic Technology Co., Ltd	PV-ZH009, DC 1000V, 12A, IP65, 85°C.	TÜV Rh
	2) Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd.	PV-RH701, DC 1000V, 11A, IP65, 85°C.	TÜV Rh
	3) Huber+Suhner AG.	RH3, DC 1000V,10A,IP65, 85°C.	TÜV Rh
	4. Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. for a),b)c) family.	PV-RH0503, DC 1000V, 16A, IP65, 85°C	TÜV Rh
	5)Tyco Electronics Co.,Ltd. for a),b)c) family.	Tyco1740971-3,DC 1000V, 13A,IP 65, 85°C.	TÜV Rh
	6. Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. For (for e) family .	PV-RH0502B, DC 1000V,7.6A, IP 65, 85°C.	TÜV Rh
	7) Suzhou Huayun Photovoltaic Technology Co.,Ltd,for a),b)c) family.	PV-0801, DC 1000V, 13A,IP65,85°C.	TÜV SUD
	8) Suzhou Huayun Photovoltaic Technology Co.,Ltd,for e) family.	PV-0601, DC 1000V, 8A,IP65,85°C.	TÜV SUD
6. Bypass diode	1.PanJit International Inc.	10SQ050, Max. peak reverse voltage 50V, Forward Rectified current 10A.	Test with appliance
	2.Powersilicon Inc	R-6 , Max. peak reverse voltage 40V, Forward Rectified current 25A. (used in the junction box CIXI 503.)	Test with appliance
	3. ST	D <sup>2</sup> PAKSTPS1545CG, Max. peak reverse voltage 45V, Forward Rectified current .15A, 175°C. (used with Huber Junction box )	Test with appliance
	4. Tyco Electronics Co.,Ltd.	SL1515,Max peakreverse voltage 40V,If=16A(used with JB Tyco1740971-3.)	Test with appliance
	5. 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 <sup>2</sup> , DC 1.8kV, 90°C.	TÜV Rh
	2) Wuxi Xinhongye Wire & Cable Co., Ltd.	PV1-F 1x4.0mm <sup>2</sup> , DC 1.8kV, 90°C	TÜV Rh
	3) Cixi Renhe Photovoltaic	PV1-F 1x4.0mm <sup>2</sup> , DC 1.8kV, 90°C	TÜV Rh

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8. Connector for Photovoltaic system	Electrical Appliance Co., Ltd. 4. Huber+Suhner AG	Sodox Solarkabel PV1-F 1x4.0mm <sup>2</sup> , DC 1.8kV, 90°C AG/ Radox Solarkabel PV1-F	TÜV Rh
	5.LEONI Studer AG Herrenmattstr .(use with Junction box Tyco1740971-3.)	1987166-4,1987167-4, PV1-F 1x4.0mm <sup>2</sup> , DC 1.8kV, 90°C	TÜV Rh
	6.Ningbo Jiangdong Yongfa Industry Co.,Ltd. (combined with Huayuan Junction)	PV1-F 1x4.0mm <sup>2</sup> , DC 1.8kV, 90°C	TÜV Rh
	1) Multi Contact AG	PV-KST4/6II, PV-KBT4/6II, DC 1000V, 30A, IP67, 90°C	TÜV Rh
	2) Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. (used with JBPH701 and 0502B))	05-1, DC 1000V, 20A, IP65, 85°C	TÜV Rh
	3) Cixi Renhe Photovoltaic Electrical Appliance Co., Ltd. (used with JB 0502B and 0503)	05-6, DC 1000V, 16A, IP65, 85°C	TÜV Rh
	4) Huber+Suhner AG (use with Huber JB RH3)	CL+C4 black /CB-C4 black /38A , DC 1000V, 85°C..	TÜV Rh
5) Tyco Electronics Co.,Ltd. (use with JB Tyco1740971-3).	0-1394462-4, 6-1394461-2,DC 1000V,25A,IP67,85°C.	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.	Anodized Aluminum Alloy, 2mm/6063 for 260P-24; 1.8mm/6063 for others	Test with appliance
	2)Guangdong Weiye Aluminium Factory Co.,Ltd.	Anodized Aluminum Alloy, 2mm/6063 for 260P-24; 1.8mm/6063 for others	Test with appliance
	3)Guangcheng Aluminium Co.,Ltd.	Anodized Aluminum Alloy, 2mm/6063 for 260P-24; 1.8mm/6063 for others	Test with appliance

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

**LDK** Solar Co., Ltd.  
SOLAR ENERGY SYSTEM

Module Type: LDK-260P-24

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

Rating Power at STC (Wp)	260W±3%
Rating Power Voltage (Vm)	36.0V
Rating Power Current (Im)	7.23A
Open Circuit Voltage (Voc)	44.2V
Short Circuit Current (Isc)	8.06A
Normal Operating Cell Temp (NOCT)	45 °C

All Technical Data at STC  
AM 1.5      T=25 °C      E=1000W/m<sup>2</sup>

Weight	30.5KG
Dimension	1958mm*994mm*50mm
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-260P-24

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

Rating Power at STC (Wp)	260W±3%
Rating Power Voltage (Vm)	36.0V
Rating Power Current (Im)	7.23A
Open Circuit Voltage (Voc)	44.2V
Short Circuit Current (Isc)	8.06A
Normal Operating Cell Temp (NOCT)	45 °C

All Technical Data at STC  
AM 1.5      T=25 °C      E=1000W/m<sup>2</sup>

Weight	30.5KG
Dimension	1958mm*994mm*50mm
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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Rating at STC:							
	LDK-280P-24	LDK-275P-24	LDK-270P-24	LDK-265P-24	LDK-260P-24	LDK-255P-24	LDK-250P-24
<b>open-circuit voltage [V]:</b>	44.3	44.3	44.2	44.2	44.2	44.1	44.1
<b>short-circuit current [A]:</b>	8.36	8.28	8.21	8.14	8.06	8.04	8.02
<b>voltage at max. power [V]:</b>	36.3	36.2	36.2	36.1	36	35.9	35.9
<b>current at max. power [A]:</b>	7.72	7.60	7.47	7.35	7.23	7.11	6.96
<b>max. power [W]:</b>	280 ± 3%	275 ± 3%	270 ± 3%	265 ± 3%	260 ± 3%	255 ± 3%	250 ± 3%
	LDK-245P-24	LDK-240P-24	LDK-240P-20	LDK-235P-20	LDK-230P-20	LDK-225P-20	LDK-220P-20
<b>open-circuit voltage [V]:</b>	44.1	44.1	36.9	36.8	36.8	36.7	36.5
<b>short-circuit current [A]:</b>	8.02	8.01	8.35	8.35	8.34	8.24	8.14
<b>voltage at max. power [V]:</b>	35.8	35.8	30	30.0	29.9	29.9	29.8
<b>current at max. power [A]:</b>	6.85	6.7	7.98	7.84	7.68	7.53	7.4
<b>max. power [W]:</b>	245 ± 3%	240 ± 3%	240 ± 3%	235 ± 3%	230 ± 3%	225 ± 3%	220 ± 3%
	LDK-215P-20	LDK-210P-20	LDK-205P-20	LDK-200P-20			
<b>open-circuit voltage [V]:</b>	36.3	36.1	36	36.0			
<b>short-circuit current [A]:</b>	7.98	7.83	7.82	7.82			
<b>voltage at max. power [V]:</b>	29.8	29.7	29.6	29.6			
<b>current at max. power [A]:</b>	7.23	7.07	6.93	6.75			
<b>max. power [W]:</b>	215 ± 3%	210 ± 3%	205 ± 3%	200 ± 3%			

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	LDK-180P-18	LDK-185P-18	LDK-190P-18	LDK-195P-18	LDK-200P-18	LDK-205P-18	LDK-210P-18
<b>open-circuit voltage [V]:</b>	32.5	32.5	32.6	32.7	32.8	33.0	33.2
<b>short-circuit current [A]:</b>	7.96	7.97	7.97	8.11	8.25	8.63	8.47
<b>voltage at max. power [V]:</b>	26.6	26.6	26.7	26.9	26.9	27.0	27.1
<b>current at max. power [A]:</b>	6.77	6.96	7.11	6.78	7.44	7.60	7.75
<b>max. power [W]:</b>	180 ± 3%	185 ± 3%	190 ± 3%	195 ± 3%	200 ± 3%	205 ± 3%	210 ± 3%
	LDK-215P-18	LDK-220P-18	LDK-220P-20/150	LDK-215P-20/150	LDK-210P-20/150	LDK-205P-20/150	LDK-200P-20/150
<b>open-circuit voltage [V]:</b>	33.2	33.3	37.1	37.0	36.9	36.8	36.7
<b>short-circuit current [A]:</b>	8.48	8.49	7.76	7.74	7.69	7.67	7.65
<b>voltage at max. power [V]:</b>	27.1	27.2	30.1	29.8	29.6	29.3	29.1
<b>current at max. power [A]:</b>	7.94	8.09	7.30	7.22	7.09	7.00	6.87
<b>max. power [W]:</b>	215 ± 3%	220± 3%	220± 3%	215± 3%	210± 3%	205± 3%	200± 3%
	LDK-195P-20/150	LDK-190P-20/150	LDK-185P-20/150	LDK-180P-20/150			
<b>open-circuit voltage [V]:</b>	36.5	36.4	36.3	36.2			
<b>short-circuit current [A]:</b>	7.60	7.55	7.53	7.51			
<b>voltage at max. power [V]:</b>	28.9	28.8	28.6	28.4			
<b>current at max. power [A]:</b>	6.75	6.60	6.47	6.33			
<b>max. power [W]:</b>	195± 3%	190± 3%	185± 3%	180± 3%			