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产品规格书
Product Specification



QC4.10-cds

承认签章 (Confirmation)					
快可承认 (QC Solar confirmation)			客户承认 (Customer confirmation)		
批准 Approved by	审核 Audited by	设计 Designed by	采购 Purchased by	品保 Quality Assured by	技术 Technical yerified by

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1.产品外观及设计性能参数/Product appearance and technical parameters



技术参数Product Specifications		
认证 Certificate	UL	TUV
名称 Product Name	SeriesQC4.10,followedby-a5,maybe followedbynone,followedbyc12,c13,c14 orc15,followedbyd1ord3,followedbye2 ore4,maybefollowedbyf1,andmaybe followedbygl.	QC4.10(PLUS)
认证型号 Certified Model	0C4.10-a5CDEf1g]	QC4.10-cds
额定电压 Rated Voltage	UL1500V	IEC1500V
额定电流 Rated Current	30A for 14AWG 35A for 12AWG 50A for 10AWG	36A for 2.5mm² 41A for 4.0mm² 46A for 6.0mm²
线缆规格 Cable Specificatior	900C 2000V,Strands of Conductor 41~84/0.25~0.3,0D5.9~7.2mm, 14AWG,12 AWG,10 AWG	EC 1500V,Strands of Conductor 41~84/0.25~0.3,OD 4.7~7.2mm, 2.5mm²,4.0mm²,6.0mm²
电缆外径 Outsidediameterofcable	N/A	QC4.10-341：0D4.7-6.0mm QC4.10-351：0D5.6-6.8mm QC4.10-361：0D6.0-7.2mm
防护等级 IP degree	N/A	P65/IP68(1m,1h)
安全等级 Protection Class	N/A	Class I
接触电阻 Resistance of Connector	Max 0.3mΩ	Max 0.3mΩ
防火等级 Flammability Class	UL94V-0	UL94V-0
温度范围 Temperature Range	-40℃~+85℃	-40℃~+85℃
Caution	'Do Not Disconnect Under Load:PV plug connections must not be disconnected while under load.They can be placed in a no load state by switching off the DC/AC converter or breaking the AC circuit".	N/A

UL 命名 UL NOMENCLATURE	TUV 命名 TUV NOMENCLATURE

NOMENCLATURE:
QC4.10 – x/A x/B x/C x/D x/E x/F x/G
 	
Where:
A – Maximum System Voltage
a5 – 1500V
B – Connector Type
none – locking type
C – PV Wire Type
c12–2000V, 12AWG, 48/0.30 (str/dia)
c13–2000V,12AWG,56/0.285 (str/dia)
c14-2000V,10AWG,84/0.285 (str/dia)
c15-2000V,14 AWG, 41/0.25 (str/dia)
D – Material of Connector Housing
d1 – EXL9330(GG)(X)(f1)(B1)(IP)
d3 – PV40Z(f1)
E – Material of Cover Nut
e2 - A3XZG5(f1)
e4 - PA66 T303(XX)GF BK - D(f1)
F - construction
f1 - Connectors with 18.6 mm outer diameter (Plus Construction)
G – Type of Pin Crimp Connector (male) and SocketConnector (female)
g1 – With an Electric Lock integrated, only for F=f1
 	
Caution:
1.For Copper Stranded Wire Only.
2.The product installation and use meet the requirements of PV modules.
3.The connector is considered to be in compliance with UL 6703, Connectors for Use in Photovoltaic Systems, Edition 1, Revision Date 06/10/2021 only when assembled in the manner specified by these assembly instructions.
 	
This connector is suitable for use only with Class B and C stranded copper conductors (See NFPA 70, National Electrical Code, Edition 2020, AMD 1 - 17, Revision Date 04/12/2022, Chapter 9, Table 10).
	Type Designation： QC4.10-cds
	
	Remark: QC4.10-cds is a general designation. The prefix letter “c”、“d”、“s” denotes different technical and design meanings.
	
	1.c=3 or 4
	c=3 denotes rated voltage 1500V with baffle plate;
	c=4 denotes rated voltage 1500Vwithout baffle plate
	
	2.d=4 or 5 or 6
	d=4 denotes rated current 36Awith stamping;
	d=5 denotes rated current 41Awith stamping;
	d=6 denotes rated current 46Awith stamping;
	
	3.s= 1 (Plus constructure)
	
	Wire cross section area or cross section range :
	1 x 2,5mm2 for QC4.10-341; QC4.10-441;
	1 x 4,0mm2 for QC4.10-351; QC4.10-451;
	1 x 6,0mm2 for QC4.10-361; QC4.10-461;

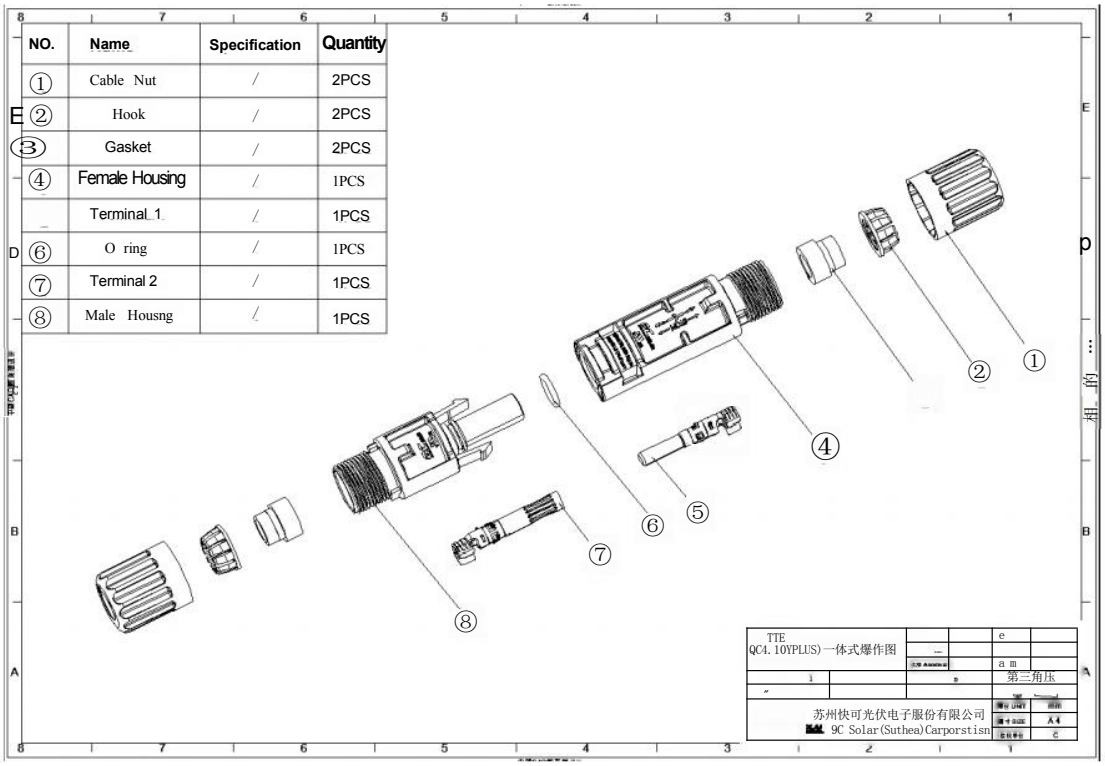
2．连接器BOM清单 / Connector BOM List

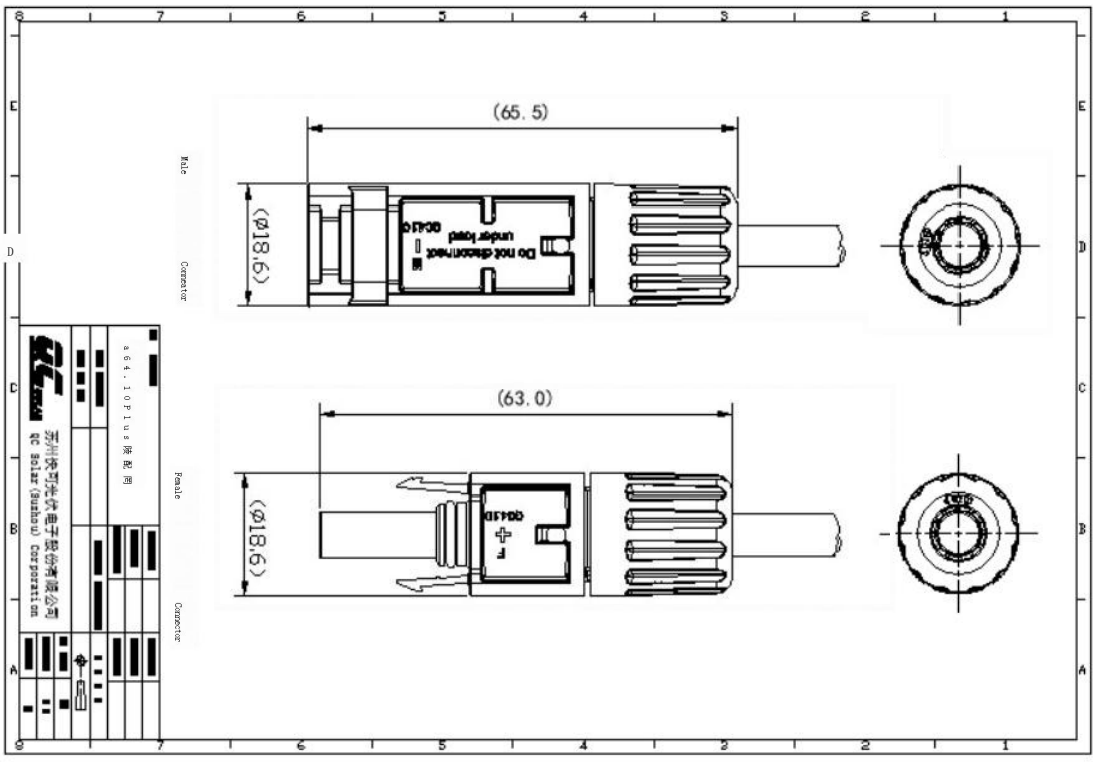
苏州快可光伏电子股份有限公司 QC Solar (Suzhou) Corporation					
产品名称 Product Name	连接器 Connector	材料清单 Bill Of Materials		版 本 Version	A/0
产品型号 Model	QC4.10-cds			张 数 Page	1
客 户 Customer	/			发行日期 Version Date	2022.08.11
序 号 S/N	名 称 Description	材 质 Material	生产厂商 Manufacturer	数 量 Quantity	备 注 Remark
1	正极本体 Female housing	PPE	QC Solar	1 pcs	
2	负极本体 Male housing	PPE	QC Solar	1 pcs	
3	后罩 Screw cap	PA	QC Solar	2 pcs	
4	内爪 Cable clamp	PA	QC Solar	2 pcs	
5	堵头 Sealing gasket	硅橡胶 Silicon rubber	QC Solar	2 pcs	规格一 :4.7-6.0 规格二 :5.6-6.8 规格三 :6.0-7.2
6	红色 O 型圈 O sealing ring	硅橡胶 Silicon rubber	QC Solar	1 pcs	
7	插针 Metal plug	铜镀锡 Tin-plated copper	QC Solar	1 pcs	
8	插套 Metal socket	铜镀锡 Tin-plated copper	QC Solar	1 pcs	
以上原料符合欧盟 ROHS 要求 All the materials above are subject to RoHS requirement.					
制表： Written By:		审核： Reviewed By:		批准： Approved By:	

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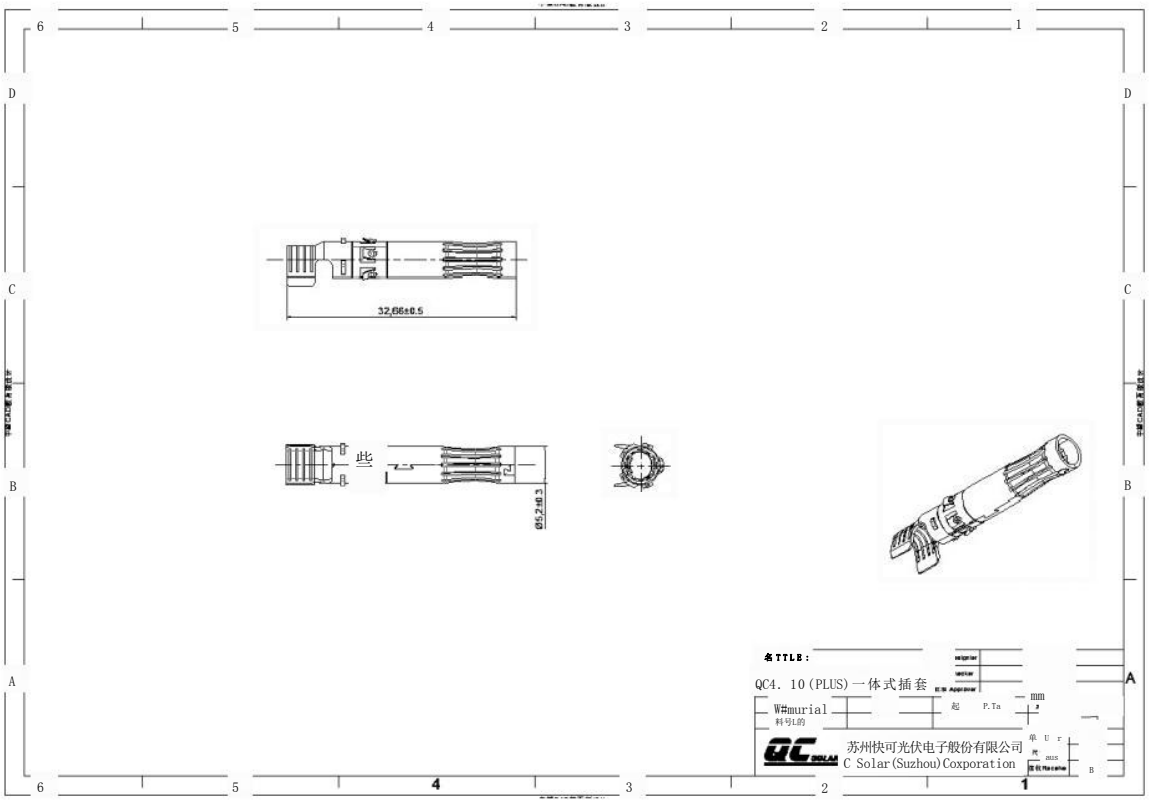
3. 连接器图纸/Drawing of connector

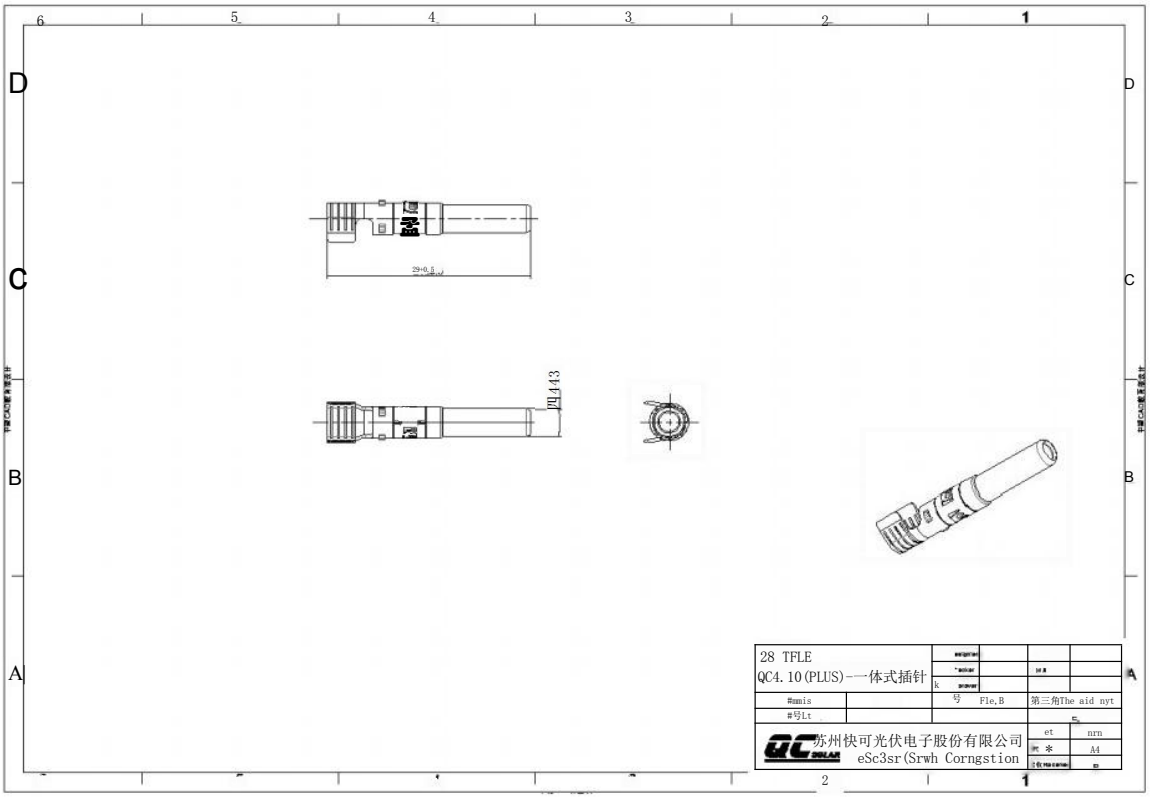
NO.	Name	Specification	Quantity
①	Cable Nut	/	2PCS
②	Hook	/	2PCS
③	Gasket	/	2PCS
④	Female Housing	/	1PCS
	Terminal 1	/	1PCS
⑥	O ring	/	1PCS
⑦	Terminal 2	/	1PCS
⑧	Male Housng	/	1PCS



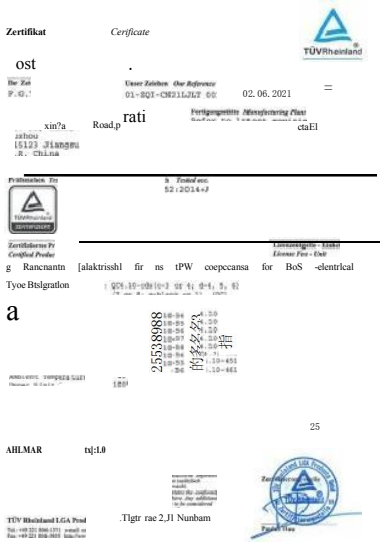


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TITLE:
QC4. 10(PLUS)一体式插套
苏州快可光伏电子股份有限公司
C Solar(Suzhou)Coxporation


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QC4.10(PLUS)一一体式插针
苏州快可光伏电子股份有限公司
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4 .连 接 器 证 书/ C e r t i f i c a t e s o f c o n n e c t o r


Zertifikat *Certificate*

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Certification Mark:

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Parameters:

Tested according to:

IEC 2E 2-206981::2300

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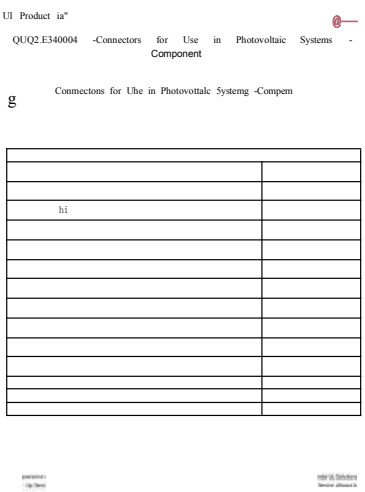
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快速可靠，成就客户!

Quick and reliable,QC Solar devotes to satisfying customers.



苏州快可光伏电子股份有限公司

QC Solar(Suzhou)Corporation

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