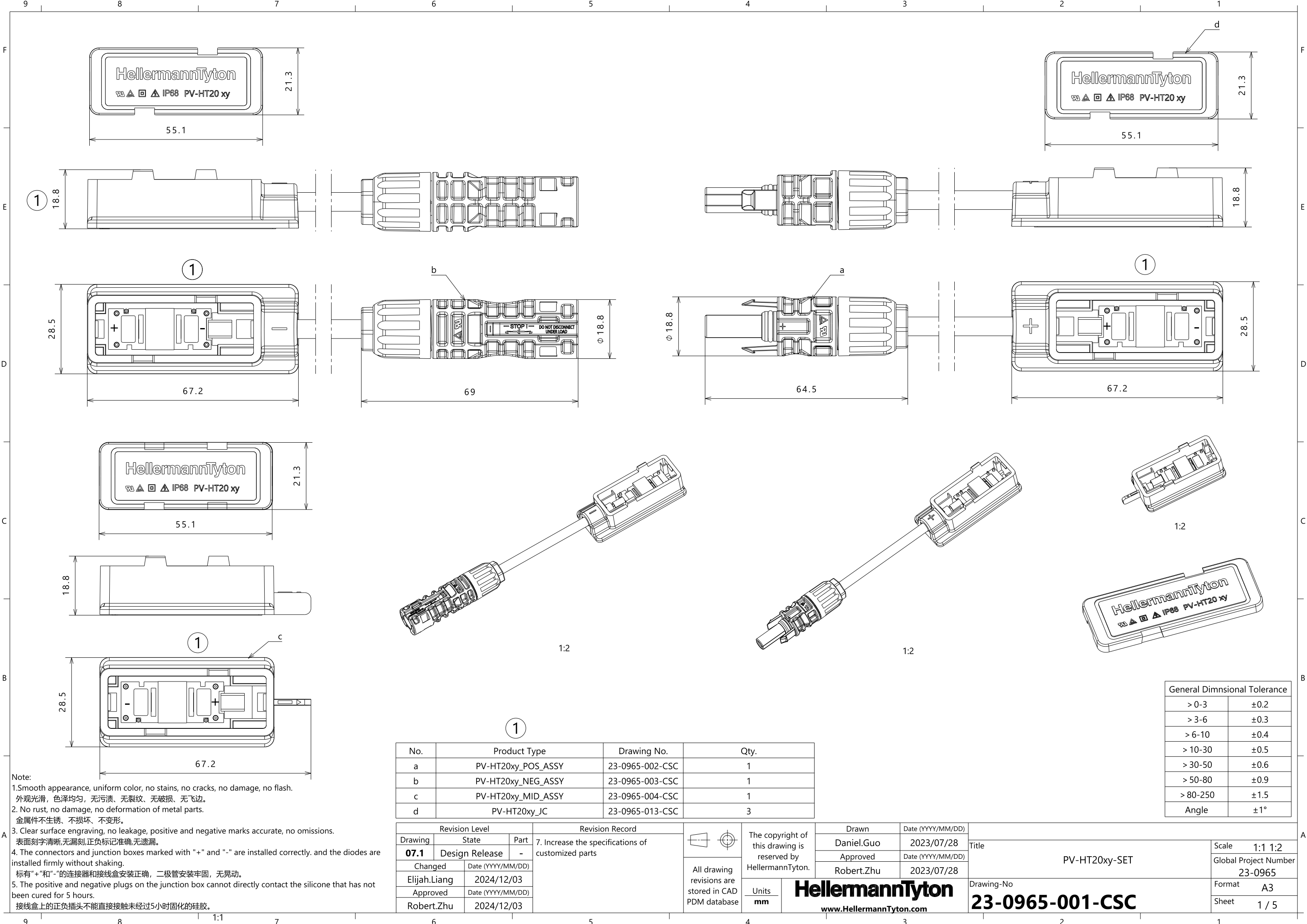




Note:

1.Smooth appearance, uniform color, no stains, no cracks, no damage, no flash.
外观光滑，色泽均匀，无污渍、无裂纹、无破损、无飞边。

2. No rust, no damage, no deformation of metal parts.
金属件不生锈、不损坏、不变形。

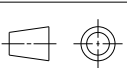
3. Clear surface engraving, no leakage, positive and negative marks accurate, no omissions.
表面刻字清晰,无漏刻,正负标记准确,无遗漏。

4. The connectors and junction boxes marked with "+" and "-" are installed correctly. and the diodes are installed firmly without shaking.
标有“+”和“-”的连接器和接线盒安装正确，二极管安装牢固，无晃动。

5. The positive and negative plugs on the junction box cannot directly contact the silicone that has not been cured for 5 hours.
接线盒上的正负插头不能直接接触未经过5小时固化的硅胶。

No.	Product Type	Drawing No.	Qty.
a	PV-HT20xy_POS_ASSY	23-0965-002-CSC	1
b	PV-HT20xy_NEG_ASSY	23-0965-003-CSC	1
c	PV-HT20xy_MID_ASSY	23-0965-004-CSC	1
d	PV-HT20xy_JC	23-0965-013-CSC	3

Revision Level			Revision Record
Drawing	State	Part	
07.1	Design Release	-	
Changed	Date (YYYY/MM/DD)		
Elijah.Liang	2024/12/03		
Approved	Date (YYYY/MM/DD)		
Robert.Zhu	2024/12/03		



All drawing revisions are stored in CAD PDM database

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Units
mm

Drawn	Date (YYYY/MM/DD)
Daniel.Guo	2023/07/28
Approved	Date (YYYY/MM/DD)
Robert.Zhu	2023/07/28

HellermannTyton
www.HellermannTyton.com

Title

PV-HT20xy-SET

Drawing-No

23-0965-001-CSC

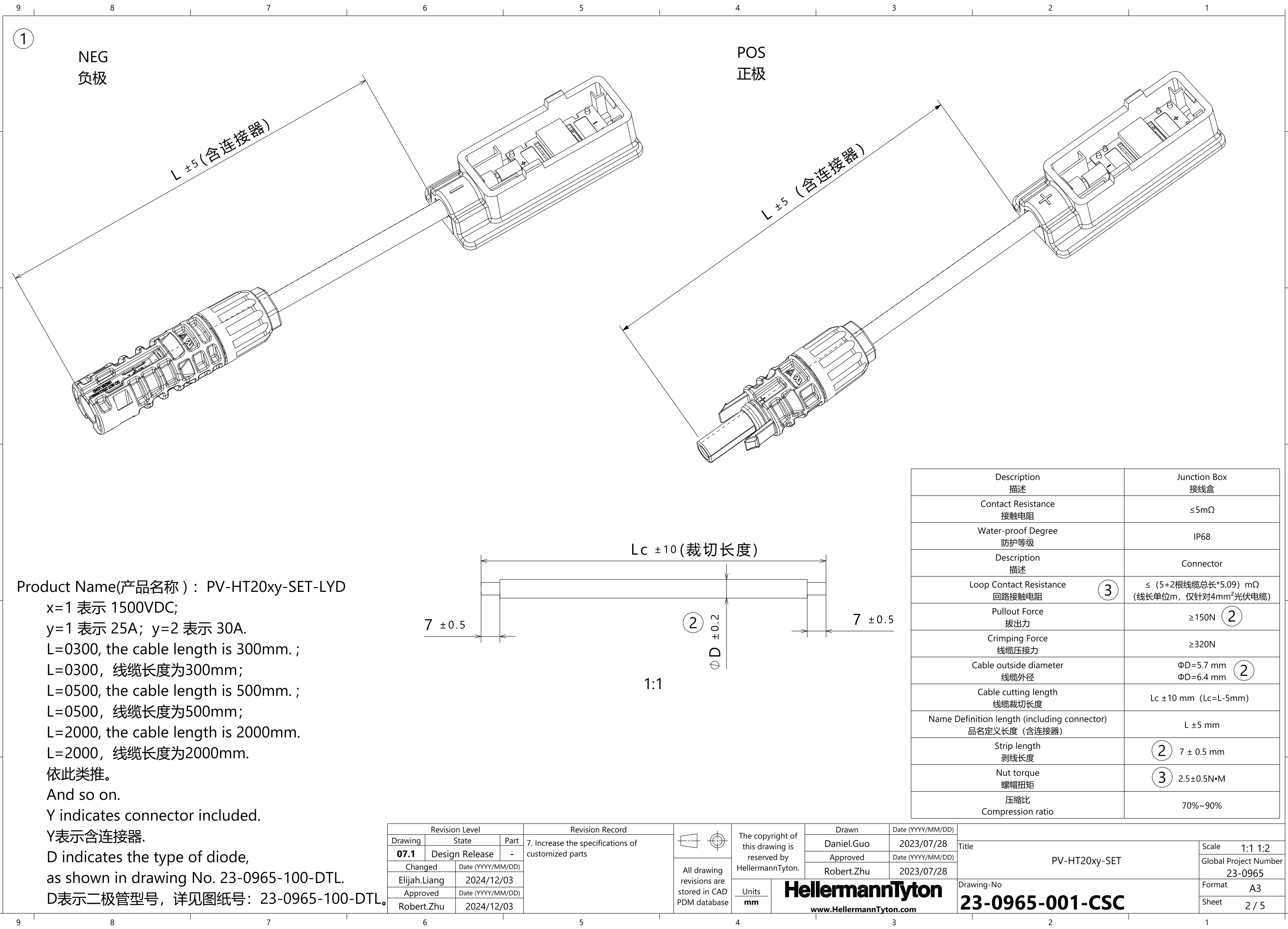
Scale 1:1 1:2

Global Project Number
23-0965

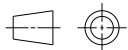
Format A3

Sheet 1 / 5

General Dimnsional Tolerance	
> 0-3	±0.2
> 3-6	±0.3
> 6-10	±0.4
> 10-30	±0.5
> 30-50	±0.6
> 50-80	±0.9
> 80-250	±1.5
Angle	±1°



PV-HT20xy-SET-LYD													①		
L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	REMARK			
300	295	5.7	1050	1045	5.7	1800	1795	5.7	2550	2545	5.7	含 连接器			
300	295	6.4	1050	1045	6.4	1800	1795	6.4	2550	2545	6.4				
350	345	5.7	1100	1095	5.7	1850	1845	5.7	2600	2595	5.7				
350	345	6.4	1100	1095	6.4	1850	1845	6.4	2600	2595	6.4				
400	395	5.7	1150	1145	5.7	1900	1895	5.7	2650	2645	5.7				
400	395	6.4	1150	1145	6.4	1900	1895	6.4	2650	2645	6.4				
450	445	5.7	1200	1195	5.7	1950	1945	5.7	2700	2695	5.7				
450	445	6.4	1200	1195	6.4	1950	1945	6.4	2700	2695	6.4				
500	495	5.7	1250	1245	5.7	2000	1995	5.7	2750	2745	5.7				
500	495	6.4	1250	1245	6.4	2000	1995	6.4	2750	2745	6.4				
550	545	5.7	1300	1295	5.7	2050	2045	5.7	2800	2795	5.7				
550	545	6.4	1300	1295	6.4	2050	2045	6.4	2800	2795	6.4				
600	595	5.7	1350	1345	5.7	2100	2095	5.7	2850	2845	5.7				
600	595	6.4	1350	1345	6.4	2100	2095	6.4	2850	2845	6.4				
650	645	5.7	1400	1395	5.7	2150	2145	5.7	2900	2895	5.7				
650	645	6.4	1400	1395	6.4	2150	2145	6.4	2900	2895	6.4				
700	695	5.7	1450	1445	5.7	2200	2195	5.7	2950	2945	5.7				
700	695	6.4	1450	1445	6.4	2200	2195	6.4	2950	2945	6.4				
750	745	5.7	1500	1495	5.7	2250	2245	5.7	3000	2995	5.7				
750	745	6.4	1500	1495	6.4	2250	2245	6.4	3000	2995	6.4				
800	795	5.7	1550	1545	5.7	2300	2295	5.7	⑦ Customized line length						QnSolar
800	795	6.4	1550	1545	6.4	2300	2295	6.4	250[-5/+10]	245	5.7				
850	845	5.7	1600	1595	5.7	2350	2345	5.7	250[-5/+10]	245	6.4				
850	845	6.4	1600	1595	6.4	2350	2345	6.4	350[-5/+10]	345	5.7				
900	895	5.7	1650	1645	5.7	2400	2395	5.7	350[-5/+10]	345	6.4				
900	895	6.4	1650	1645	6.4	2400	2395	6.4							
950	945	5.7	1700	1695	5.7	2450	2445	5.7							
950	945	6.4	1700	1695	6.4	2450	2445	6.4							
1000	995	5.7	1750	1745	5.7	2500	2495	5.7							
1000	995	6.4	1750	1745	6.4	2500	2495	6.4							

Revision Level			Revision Record			The copyright of this drawing is reserved by HellermannTyton.	Drawn		Date (YYYY/MM/DD)		Title PV-HT20xy-SET		Scale 1:1 1:2 Global Project Number 23-0965	
Drawing	State		Part	7. Increase the specifications of customized parts			Daniel.Guo		2023/07/28					
07.1	Design Release		-		Approved		Date (YYYY/MM/DD)							
Changed		Date (YYYY/MM/DD)			Robert.Zhu		2023/07/28							
Elijah.Liang		2024/12/03												
Approved		Date (YYYY/MM/DD)								Drawing-No		Format		
Robert.Zhu		2024/12/03								23-0965-001-CSC		A3		
												Sheet		
												3 / 5		

1

NEG
负极

POS
正极

$L \pm 5$ (不含连接器)

$L \pm 5$ (不含连接器)

$L_c \pm 10$ (裁切长度)

7 ± 0.5

2

$\varnothing D \pm 0.2$

7 ± 0.5

1:1

Product Name(产品名称) : PV-HT20xy-SET-LND

x=1 表示 1500VDC;
y=1 表示 25A; y=2 表示 30A.
L=0300, the cable length is 300mm. ;
L=0300, 线缆长度为300mm;
L=0500, the cable length is 500mm. ;
L=0500, 线缆长度为500mm;
L=2000, the cable length is 2000mm.
L=2000, 线缆长度为2000mm.
依此类推。
And so on.

N indicates that no connector is included.

N表示不含连接器.

D indicates the type of diode,
as shown in drawing No. 23-0965-100-DTL.

D表示二极管型号, 详见图纸号: 23-0965-100-DTL.

Description 描述	Junction Box 接线盒
Contact Resistance 接触电阻	$\leq 5\text{m}\Omega$
Water-proof Degree 防护等级	IP68
Description 描述	Connector
Loop Contact Resistance 回路接触电阻	3 $\leq (5+2\text{根线缆总长} \times 5.09) \text{ m}\Omega$ (线长单位m, 仅针对4mm ² 光伏电缆)
Pullout Force 拔出力	$\geq 150\text{N}$ 2
Crimping Force 线缆压接力	$\geq 320\text{N}$
Cable outside diameter 线缆外径	$\varnothing D=5.7 \text{ mm}$ $\varnothing D=6.4 \text{ mm}$ 2
Cable cutting length 线缆裁切长度	$L_c \pm 10 \text{ mm}$ ($L_c=L+60 \text{ mm}$)
Name Definition length (including connector) 品名定义长度 (含连接器)	$L \pm 5 \text{ mm}$
Strip length 剥线长度	2 $7 \pm 0.5 \text{ mm}$
Nut torque 螺帽扭矩	3 $2.5 \pm 0.5\text{N}\cdot\text{M}$
压缩比 Compression ratio	70%~90%

Revision Level		
Drawing	State	Part
07.1	Design Release	-
Changed	Date (YYYY/MM/DD)	
Elijah.Liang	2024/12/03	
Approved	Date (YYYY/MM/DD)	
Robert.Zhu	2024/12/03	

Revision Record		
7. Increase the specifications of customized parts		

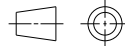
All drawing revisions are stored in CAD PDM database	
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Units	mm

Drawn	Date (YYYY/MM/DD)
Daniel.Guo	2023/07/28
Approved	Date (YYYY/MM/DD)
Robert.Zhu	2023/07/28

Title	Scale 1:1 1:2
PV-HT20xy-SET	Global Project Number 23-0965
Drawing-No	Format A3
23-0965-001-CSC	Sheet 4 / 5

PV-HT20xy-SET-LND													①
L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	L(品名)	Lc(裁切长度) mm	ΦD(线缆直径) mm	Remark	
300	360	5.7	1050	1110	5.7	1800	1860	5.7	2550	2610	5.7	不含 连接器	
300	360	6.4	1050	1110	6.4	1800	1860	6.4	2550	2610	6.4		
350	410	5.7	1100	1160	5.7	1850	1910	5.7	2600	2660	5.7		
350	410	6.4	1100	1160	6.4	1850	1910	6.4	2600	2660	6.4		
400	460	5.7	1150	1210	5.7	1900	1960	5.7	2650	2710	5.7		
400	460	6.4	1150	1210	6.4	1900	1960	6.4	2650	2710	6.4		
450	510	5.7	1200	1260	5.7	1950	2010	5.7	2700	2760	5.7		
450	510	6.4	1200	1260	6.4	1950	2010	6.4	2700	2760	6.4		
500	560	5.7	1250	1310	5.7	2000	2060	5.7	2750	2810	5.7		
500	560	6.4	1250	1310	6.4	2000	2060	6.4	2750	2810	6.4		
550	610	5.7	1300	1360	5.7	2050	2110	5.7	2800	2860	5.7		
550	610	6.4	1300	1360	6.4	2050	2110	6.4	2800	2860	6.4		
600	660	5.7	1350	1410	5.7	2100	2160	5.7	2850	2910	5.7		
600	660	6.4	1350	1410	6.4	2100	2160	6.4	2850	2910	6.4		
650	710	5.7	1400	1460	5.7	2150	2210	5.7	2900	2960	5.7		
650	710	6.4	1400	1460	6.4	2150	2210	6.4	2900	2960	6.4		
700	760	5.7	1450	1510	5.7	2200	2260	5.7	2950	3010	5.7		
700	760	6.4	1450	1510	6.4	2200	2260	6.4	2950	3010	6.4		
750	810	5.7	1500	1560	5.7	2250	2310	5.7	3000	3060	5.7		
750	810	6.4	1500	1560	6.4	2250	2310	6.4	3000	3060	6.4		
800	860	5.7	1550	1610	5.7	2300	2360	5.7	④ Customized line length			⑤ HANOVER SOLAR	
800	860	6.4	1550	1610	6.4	2300	2360	6.4	90[0/+10]	⑥ 150	5.7		
850	910	5.7	1600	1660	5.7	2350	2410	5.7	90[0/+10]	150	6.4		
850	910	6.4	1600	1660	6.4	2350	2410	6.4	210[0/+10]	270	5.7		
900	960	5.7	1650	1710	5.7	2400	2460	5.7	210[0/+10]	270	6.4		
900	960	6.4	1650	1710	6.4	2400	2460	6.4					
950	1010	5.7	1700	1760	5.7	2450	2510	5.7					
950	1010	6.4	1700	1760	6.4	2450	2510	6.4					
1000	1060	5.7	1750	1810	5.7	2500	2560	5.7					
1000	1060	6.4	1750	1810	6.4	2500	2560	6.4					

Revision Level			Revision Record		 All drawing revisions are stored in CAD PDM database		Drawn		Date (YYYY/MM/DD)		Title PV-HT20xy-SET		Scale 1:1 1:2	
Drawing	State		Part	7. Increase the specifications of customized parts			Daniel.Guo		2023/07/28				Global Project Number 23-0965	
⑦.1		Design Release				Approved		Date (YYYY/MM/DD)						
Changed		Date (YYYY/MM/DD)				Robert.Zhu		2023/07/28		Drawing-No 23-0965-001-CSC		Format A3		
Elijah.Liang		2024/12/03				Approved		Date (YYYY/MM/DD)				Sheet 5 / 5		
Robert.Zhu		2024/12/03				Units mm		Helle mann Ty ton www.Helle mann Ty ton .com						