

Customer Drawing

Amphenol TPI

2023 -05- 09

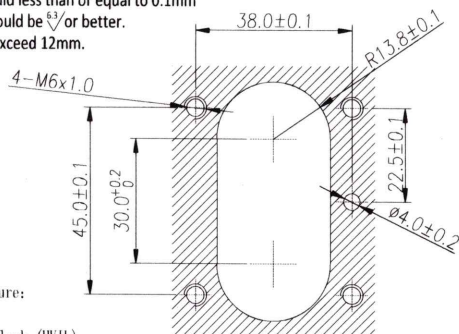
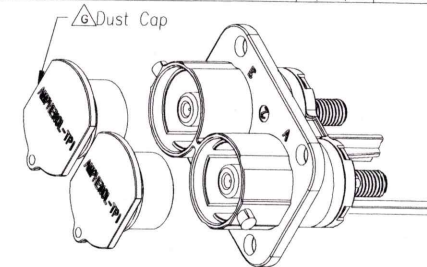
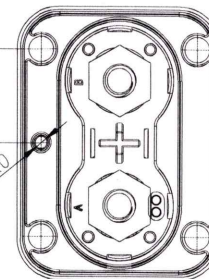
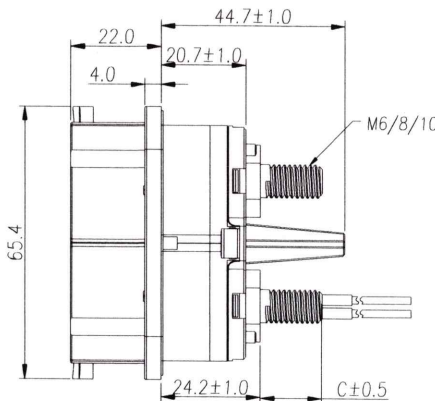
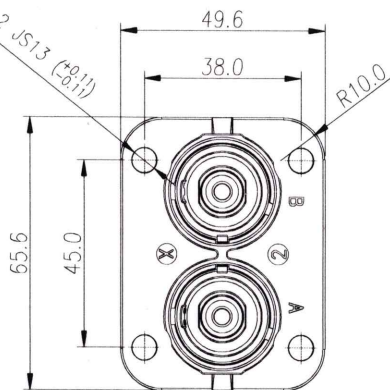
REGISTERED COPY

Notices:

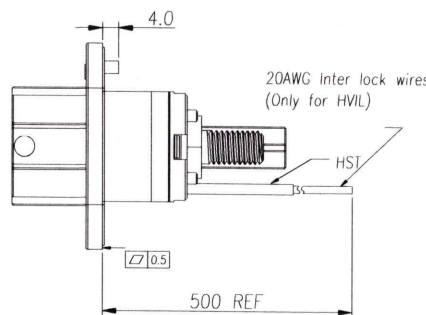
1. All non-dimensioned surfaces according to 3D-model & 
2. Planeness of panel surface should less than or equal to 0.1mm
3. Roughness of panel surface should be $\sqrt{}$ or better.
4. Thickness of panel should not exceed 12mm.

规格参数 (Spec.):

1. 工作温度 Operating temperature:
-40° C ~ +125° C.
2. 带高压互锁 Electrical interlock (HVIL).
3. 额定电流 Current rating:
Power: 300A; HVIL: 5A.
4. 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
5. 耐电压 Dielectric withstanding voltage:
 - A. 与插头对接后, Pin与铁壳之间
After mating, between pin and metal shell :5000 VDC.
 - B. 与插头对接后, Pin与HVIL之间
After mating, between pin and HVIL :5000 VDC.
 - C. 与插头对接后, HVIL与铁壳之间
After mating, between HVIL and metal shell :500 VDC.
 - D. 与插头对接前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals :500 VDC.
6. 防护等级 Protection class: IP67 & IP2X.
7. 电磁屏蔽 Shielding.
8. 机械寿命 Mating cycle: 100 Min. 
9. 带自动二次锁扣 Automatic secondary lock.
10. 铜排推荐安装扭矩 Recommended Fasten Torque on Lug:
M6 : 3.6~4.4 Nm
M8 : 7.2~8.8 Nm
M10: 17.1~20.9 Nm
11. 推荐法兰盘螺丝安装扭矩 Recommended Screw Assembly Torque on Flange : 6.2~7.6 Nm



面板安装孔尺寸
Panel Size



订购信息 Ordering Information

PL082 X - 30 1 - 20 M 8

键位及防触颜色

Key and touch proof color

X Key, 橙色 Orange

Y Key, 黑色 Black 

高压互锁 HVIL

0, 不带互锁 No HVIL

1, 带互锁 With HVIL

螺栓大小 Thread Size

M6

M8

M10

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第三角投影 THIRD ANGLE PROJECTION				页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PART NAME: PwrLok 10mm 2POS Rcpt Conn
				1 of 1	A3	M		
日期 DATE		UNLESS OTHERWISE SPECIFIED						
05/08/23 05/08/2023 2023-8-2		1) All dimensions are in metric(mm).						
		2) Tolerances are as follows:						
		0 PL DEC ±1.00						
		1 PL DEC ±0.50						
		2 PL DEC ±0.20						
		Angles ±1°						
DWG NO:								PL082-300-20
CUST PART #								N/A
								CUST REV.
								-

Standard Part List (With HVIL)

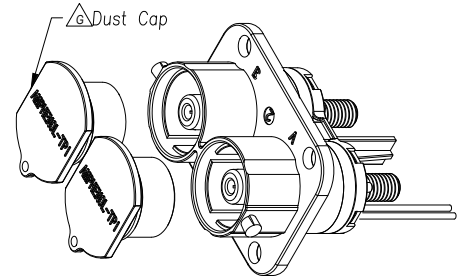
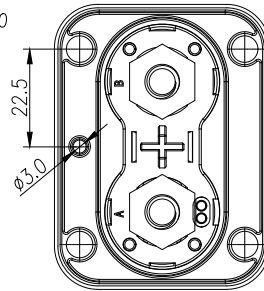
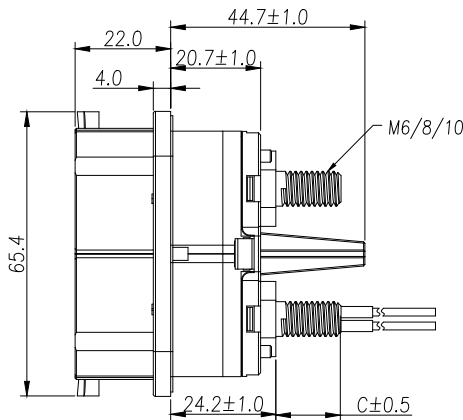
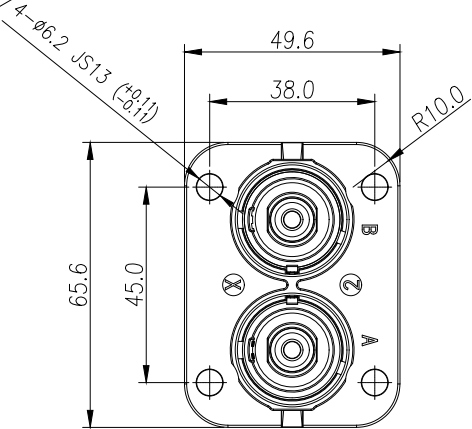
P/N	Model NO.	Mating Plug Model NO.	C
AC-HA001507	PL082X-301-20M8	PL182X-301-XX, PL282X-301-XX	15.0
AC-HA001508	PL082Y-301-20M8	PL182Y-301-XX, PL282Y-301-XX	15.0
AC-HA002523	PL082X-301-20M6	PL182X-301-XX, PL282X-301-XX	12.0
AC-HA002524	PL082Y-301-20M6	PL182Y-301-XX, PL282Y-301-XX	12.0
AC-HA002525	PL082X-301-20M10	PL182X-301-XX, PL282X-301-XX	15.0
AC-HA002526	PL082Y-301-20M10	PL182Y-301-XX, PL282Y-301-XX	15.0

Standard Part List (Without HVIL)

P/N	Model NO.	Mating Plug Model NO.	A
AC-HA000947	PL082X-300-20M8	PL182X-300-XX, PL282X-300-XX	15.0
AC-HA000948	PL082Y-300-20M8	PL182Y-300-XX, PL282Y-300-XX	15.0
AC-HA002527	PL082X-300-20M6	PL182X-300-XX, PL282X-300-XX	12.0
AC-HA002528	PL082Y-300-20M6	PL182Y-300-XX, PL282Y-300-XX	12.0
AC-HA002529	PL082X-300-20M10	PL182X-300-XX, PL282X-300-XX	15.0
AC-HA002530	PL082Y-300-20M10	PL182Y-300-XX, PL282Y-300-XX	15.0

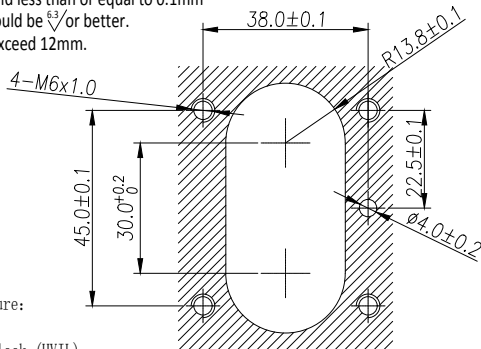
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Customer Drawing

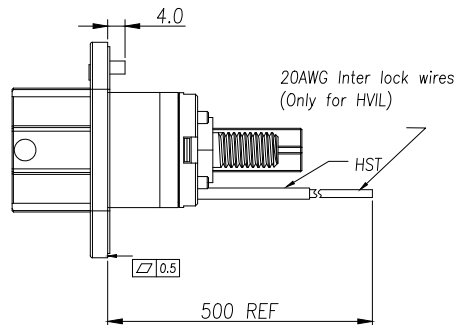


Notices:

1. All non-dimensioned surfaces according to 3D-model & $\triangle 3$
2. Planeness of panel surface should less than or equal to 0.1mm
3. Roughness of panel surface should be $R\sqrt{3}$ or better.
4. Thickness of panel should not exceed 12mm.



面板安装孔尺寸
Panel Size



规格参数 (Spec.):

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-40° C ~ +125° C.
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Power: 300A; HVIL: 5A.
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Power: 1000 VDC; Signal: 60 VDC.
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B. 与插头对插后, Pin与HVIL之间
After mating, between pin and HVIL :5000 VDC.
C. 与插头对插后, HVIL与铁壳之间
After mating, between HVIL and metal shell :500 VDC.
D. 与插头对插前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals :500 VDC.
6. 防护等级 Protection class: IP67 & IP2X.
7. 电磁屏蔽 Shielding.
8. 机械寿命 Mating cycle: 100 Min. $\triangle$
9. 带自动二次锁扣 Automatic secondary lock.
10. 铜排推荐安装扭矩 Recommended Fasten Torque on Lug:
M6 : 3.6~4.4 Nm
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订购信息 Ordering Information

PL082	X	-	30	1	-	20	M	8
键位及防触帽颜色 Key and touch proof color		高压互锁 HVIL		螺栓大小 Thread Size				
"X" Key, 橙色 Orange		0, 不带互锁 No HVIL		M6				
"Y" Key, 黑色 Black $\triangle$		1, 带互锁 With HVIL		M8				
				M10				

Standard Part List (With HVIL)

P/N	Model NO.	Mating Plug Model NO.	C
AC-HA001507	PL082X-301-20M8	PL182X-301-XX, PL282X-301-XX	15.0
AC-HA001508	PL082Y-301-20M8	PL182Y-301-XX, PL282Y-301-XX	15.0
AC-HA002523	PL082X-301-20M6	PL182X-301-XX, PL282X-301-XX	12.0
AC-HA002524	PL082Y-301-20M6	PL182Y-301-XX, PL282Y-301-XX	12.0
AC-HA002525	PL082X-301-20M10	PL182X-301-XX, PL282X-301-XX	15.0
AC-HA002526	PL082Y-301-20M10	PL182Y-301-XX, PL282Y-301-XX	15.0

Standard Part List (Without HVIL)

P/N	Model NO.	Mating Plug Model NO.	A
AC-HA000947	PL082X-300-20M8	PL182X-300-XX, PL282X-300-XX	15.0
AC-HA000948	PL082Y-300-20M8	PL182Y-300-XX, PL282Y-300-XX	15.0
AC-HA002527	PL082X-300-20M6	PL182X-300-XX, PL282X-300-XX	12.0
AC-HA002528	PL082Y-300-20M6	PL182Y-300-XX, PL282Y-300-XX	12.0
AC-HA002529	PL082X-300-20M10	PL182X-300-XX, PL282X-300-XX	15.0
AC-HA002530	PL082Y-300-20M10	PL182Y-300-XX, PL282Y-300-XX	15.0

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第三角投影 THIRD ANGLE PROJECTION	页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PART NAME: PwrLok 10mm 2POS Rcpt Conn
1 OF 1	A3	M			
签名 SIGNATURE	日期 DATE	UNLESS OTHERWISE SPECIFIED	DWG NO: PL082-300-20		
制图 DRAWN	Simon	1) All dimensions are in metric(mm). 2) Tolerances are as follows: 0 PL DEC ±1.00 1 PL DEC ±0.50 2 PL DEC ±0.20	CUST PART #: N/A		
审核 CHECKED		Angles ±1°	CUST REV. -		
批准 APPROVAL					