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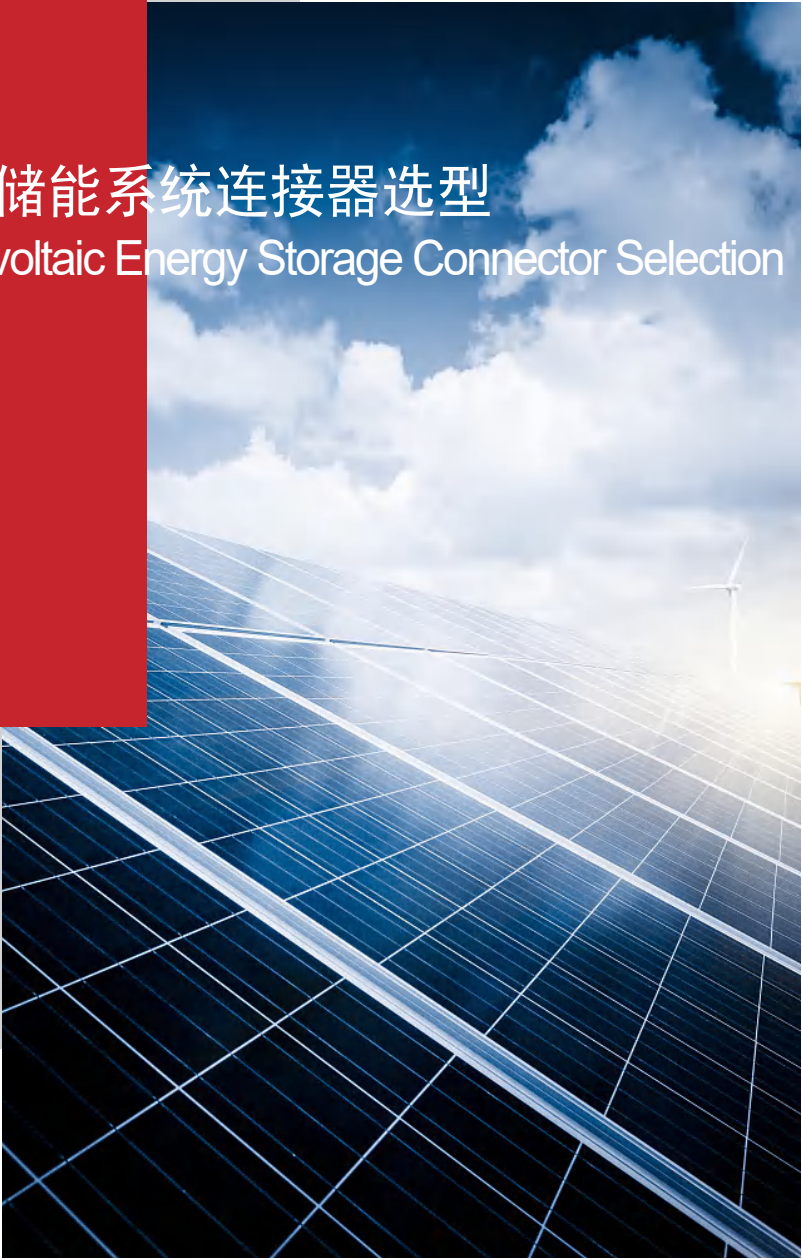
本手册中所附图片以供参考，实物以实际销售产品为准；
规格参数如有误差和变动，以本公司商务核实为准。
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Photovoltaic Energy Storage Connector Selection

光伏储能系统连接器选型



光伏储能系统连接器选型
Photovoltaic Energy Storage Connector Selection



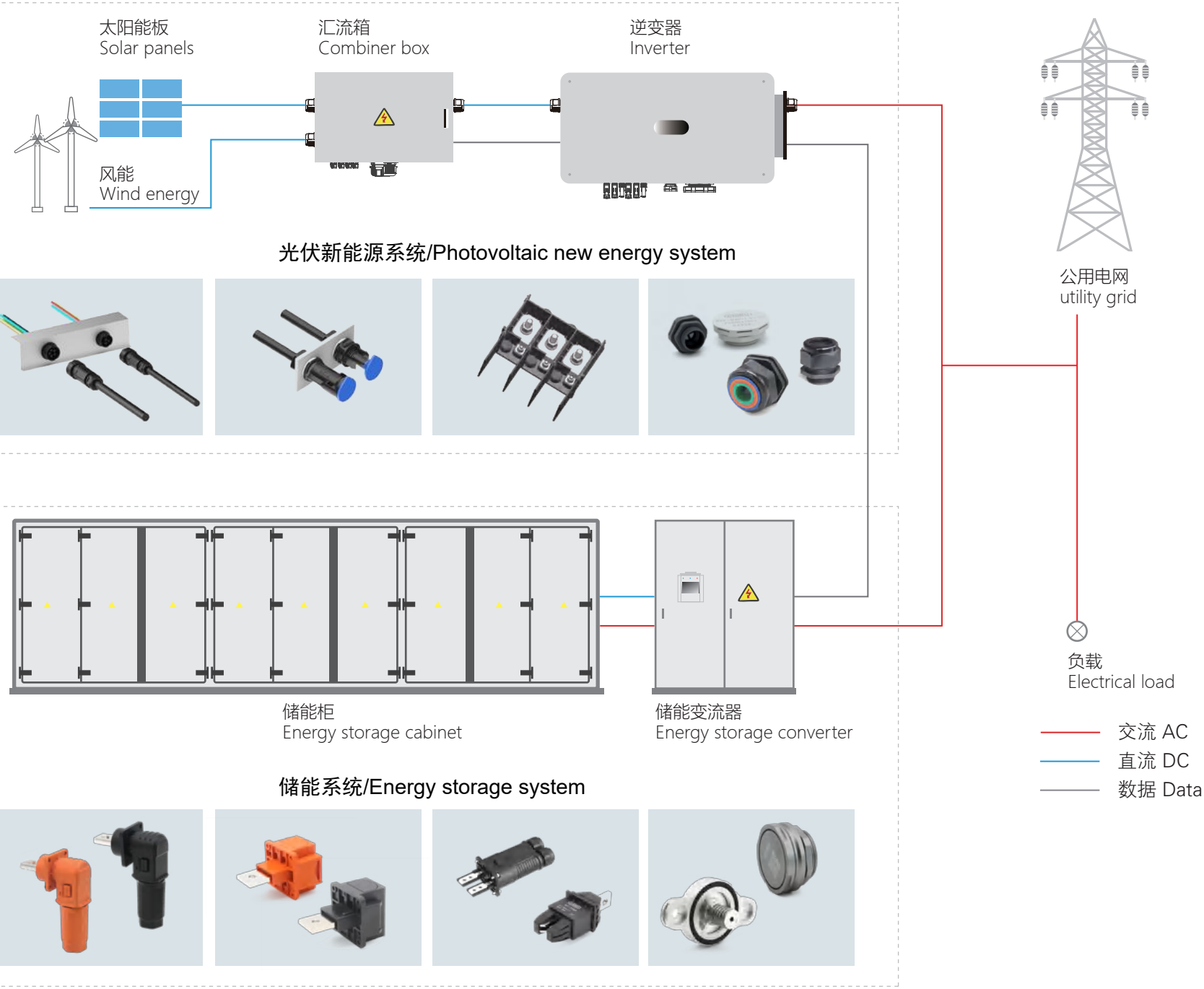
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CHIKU[®] PRODUCTS APPLICATION 产品应用



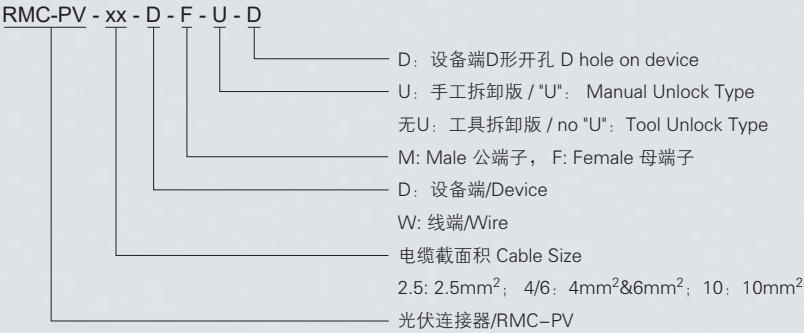
PV 光伏直流连接器

Photovoltaic DC Connector

PV地面光伏系统直流连接器（DC连接器），主要应用在光伏组件端接线盒、光伏逆变器、储能设备、光伏汇流箱、以及光伏电站阵列的电气连接。

The DC connector (DC connector) of the PV ground photovoltaic system is mainly used in the electrical connection of photovoltaic module terminal junction boxes, photovoltaic inverters, energy storage equipment, photovoltaic combiner boxes, and photovoltaic power station arrays.

外壳组件命名规则 Shell Component naming conventions



光伏连接器端子组件命名规则 Terminal Component naming conventions



RMC-PV 光伏连接器 Photovoltaic Connector

概述 Finished Product Selection Guide

PV连接器，用于光伏系统中的直流回路连接，其额定电压不大于直流1500 V，额定电流不大于50 A。

Connectors for use in the d.c. circuits of photovoltaic systems with rated voltages up to 1500V d.c. and rated currents up to 50A per contact.



说明/Description	参数/parameter
额定电压/Rated Voltage	1500V DC
额定电流/Rated Current	25A (2.5 mm ²), 35A/45A (4 mm ² /6 mm ²), 50A (10 mm ²)
接线范围/Wiring range	2.5/4/6/10mm ²
工作温度范围/Range of working temperature	-40℃~+105℃
IP等级/Ingress Protection Rating	IP68, 插合后mated(1m,24h)&lP2X 未插合状态,预防手指接触Touch-Proof, Unplugged
污染等级/Pollution Degree	III
阻燃等级/Flammability	UL94 V-0
端子类型/Type of Terminal	压接 Crimping
解锁类型/Unlock Options	工具拆卸式/手工拆卸式/Tool Unlock Type or Manual Unlock Type
绝缘材料/Insulation Material	PC/PA
产品标准/Standard	IEC62852,GB/T33765,UL6703,UL-486A-B



¹⁾ 本文件中 “xx” 代表电缆截面积。"xx" in this document represents the cable sectional area.

RMC-PV 光伏连接器 Photovoltaic Connector

RMC-PV 成品选型指南 Finished Product Selection Guide

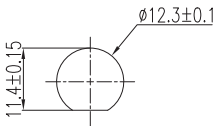
逆变器用光伏连接器-负极
Negative Connector for Inverters

类别 Type	导线截面积/ Wiring area		组件名称 Component Name	组件型号(黑色) Component Spec.(BK)	组件型号(蓝色) Component Spec.(BU)
	mm²	AWG			
工具拆卸版 Tool Unlock Type	2.5	14	设备端-母头/ Device side – female	RMC-PV-2.5/10-D-F-D(-)	RMC-PV-2.5/10-D-F-D(BU)(-)
			电缆端-公头/ Wire side – male	RMC-PV-2.5/6-W-M(-)	RMC-PV-2.5/6-W-M(BU)(-)
			卷带母端子/ Female terminal as reel	RMC-PV-TLR-2.5-F	RMC-PV-TLR-2.5-F
			散装公端子/ Single male terminal	RMC-PV-TLS-2.5-M	RMC-PV-TLS-2.5-M
	4/6	12/10	设备端-母头/ Device side – female	RMC-PV-2.5/10-D-F-D(-)	RMC-PV-2.5/10-D-F-D(BU)(-)
			电缆端-公头/ Wire side – male	RMC-PV-2.5/6-W-M(-)	RMC-PV-2.5/6-W-M(BU)(-)
			卷带母端子/ Female terminal as reel	RMC-PV-TLR-4/6-F	RMC-PV-TLR-4/6-F
			散装公端子/ Single male terminal	RMC-PV-TLS-4/6-M	RMC-PV-TLS-4/6-M
手工拆卸版 Manual Unlock Type	2.5	14	设备端-母头/ Device side – female	RMC-PV-2.5/10-D-F-D(-)	RMC-PV-2.5/10-D-F-D(BU)(-)
			电缆端-公头/ Wire side – male	RMC-PV-2.5/6-W-M-U(-)	RMC-PV-2.5/6-W-M-U(BU)(-)
			卷带母端子/ Female terminal as reel	RMC-PV-TLR-2.5-F	RMC-PV-TLR-2.5-F
			散装公端子/ Single male terminal	RMC-PV-TLS-2.5-M	RMC-PV-TLS-2.5-M
	4/6	12/10	设备端-母头/ Device side – female	RMC-PV-2.5/10-D-F-D(-)	RMC-PV-2.5/10-D-F-D(BU)(-)
			电缆端-公头/ Wire side – male	RMC-PV-2.5/6-W-M-U(-)	RMC-PV-2.5/6-W-M-U(BU)(-)
			卷带母端子/ Female terminal as reel	RMC-PV-TLR-4/6-F	RMC-PV-TLR-4/6-F
			散装公端子/ Single male terminal	RMC-PV-TLS-4/6-M	RMC-PV-TLS-4/6-M
	10	8	设备端-母头/ Device side – female	RMC-PV-2.5/10-D-F-D(-)	RMC-PV-2.5/10-D-F-D(BU)(-)
			电缆端-公头/ Wire side – male	RMC-PV-10-W-M(-)	RMC-PV-10-W-M(BU)(-)
			卷带母端子/ Female terminal as reel	RMC-PV-TLR-10-F	RMC-PV-TLR-10-F
			散装公端子/ Single male terminal	RMC-PV-TLS-10-M	RMC-PV-TLS-10-M

设备端 – 母头
Device side – female
RMC-PV-xx-D-F-D

母端子 – 卷盘包装
Female terminal as reel
RMC-PV-TLR-xx-F

面板D形开孔
D hole on panel



公端子 – 单独件袋装
Male terminal as single piece
RMC-PV-TLS-xx-M

电缆端 – 公头 (选项-1: 工具拆卸版)
Wire side – male (Option-1: Tool Unlock Type)
RMC-PV-xx-W-M

电缆端 – 公头 (选项-2: 手工拆卸版)
Wire side – male (Option-2: Manual Unlock Type)
RMC-PV-xx-W-M-U



RMC-PV 光伏连接器 Photovoltaic Connector

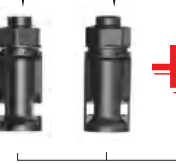
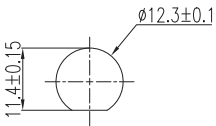
RMC-PV 成品选型指南 Finished Product Selection Guide

逆变器用光伏连接器-正极
Positive Connector for Inverters

类别 Type	导线截面积/ Wiring area		组件名称 Component Name	组件型号(黑色) Component Spec.(BK)	组件型号(蓝色) Component Spec.(BU)
	mm²	AWG			
工具拆卸版 Tool Unlock Type	2.5	14	设备端-公头/ Device side – male	RMC-PV-2.5/10-D-M-D(+)	RMC-PV-2.5/10-D-M-D(BU)(+)
			电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(BU)(+)
			卷装公端子/ Male terminal as reel	RMC-PV-TLR-2.5-M	RMC-PV-TLR-2.5-M
			散装母端子/ Single female terminal	RMC-PV-TLS-2.5-F	RMC-PV-TLS-2.5-F
	4/6	12/10	设备端-公头/ Device side – male	RMC-PV-2.5/10-D-M-D(+)	RMC-PV-2.5/10-D-M-D(BU)(+)
			电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(BU)(+)
			卷装公端子/ Male terminal as reel	RMC-PV-TLR-4/6-M	RMC-PV-TLR-4/6-M
			散装母端子/ Single female terminal	RMC-PV-TLS-4/6-F	RMC-PV-TLS-4/6-F
手工拆卸版 Manual Unlock Type	2.5	14	设备端-公头/ Device side – male	RMC-PV-2.5/10-D-M-U-D(+)	RMC-PV-2.5/10-D-M-U-D(BU)(+)
			电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(BU)(+)
			卷装公端子/ Male terminal as reel	RMC-PV-TLR-2.5-M	RMC-PV-TLR-2.5-M
			散装母端子/ Single female terminal	RMC-PV-TLS-2.5-F	RMC-PV-TLS-2.5-F
	4/6	12/10	设备端-公头/ Device side – male	RMC-PV-2.5/10-D-M-U-D(+)	RMC-PV-2.5/10-D-M-U-D(BU)(+)
			电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(BU)(+)
			卷装公端子/ Male terminal as reel	RMC-PV-TLR-4/6-M	RMC-PV-TLR-4/6-M
			散装母端子/ Single female terminal	RMC-PV-TLS-4/6-F	RMC-PV-TLS-4/6-F
	10	8	设备端-公头/ Device side – male	RMC-PV-2.5/10-D-M-U-D(+)	RMC-PV-2.5/10-D-M-U-D(BU)(+)
			电缆端-母头/ Wire side – female	RMC-PV-10-W-F(+)	RMC-PV-10-W-F(BU)(+)
			卷装公端子/ Male terminal as reel	RMC-PV-TLR-10-M	RMC-PV-TLR-10-M
			散装母端子/ Single female terminal	RMC-PV-TLS-10-F	RMC-PV-TLS-10-F

设备端 – 公头 (选项-2: 手工拆卸版)
Device side – male (Option-2: Manual Unlock Type)
RMC-PV-xx-D-M-U-D

面板D形开孔
D hole on panel



公端子 – 卷盘包装
Male terminal as reel
RMC-PV-TLR-xx-M

设备端 – 公头 (选项-1: 工具拆卸版)
Device side – male (Option-1: Tool Unlock Type)
RMC-PV-xx-D-M-D

电缆端 – 母头
Wire side – female
RMC-PV-xx-W-F

母端子 – 单独件袋装
Female terminal as single piece
RMC-PV-TLS-xx-F



RMC-PV 光伏连接器 Photovoltaic Connector

RMC-PV 成品选型指南 Finished Product Selection Guide

电缆连接用光伏连接器 PV Connector for Cable Connection					
类别 Type	导线截面积/ Wiring area		组件名称 Component Name	组件型号(黑色) Component Spec.(BK)	组件型号(蓝色) Component Spec.(BU)
	mm²	AWG			
工具拆卸版 Tool Unlock Type	2.5	14	电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(01)(+)
			电缆端-公头/ Wire side –male	RMC-PV-2.5/6-W-M(-)	RMC-PV-2.5/6-W-M(01)(-)
			散装母端子/ Single female terminal	RMC-PV-TLS-2.5-F	RMC-PV-TLS-2.5-F
			散装公端子/ Single male terminal	RMC-PV-TLS-2.5-M	RMC-PV-TLS-2.5-M
	4/6	12/10	电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(01)(+)
			电缆端-公头/ Wire side –male	RMC-PV-2.5/6-W-M(-)	RMC-PV-2.5/6-W-M(01)(-)
			散装母端子/ Single female terminal	RMC-PV-TLS-4/6-F	RMC-PV-TLS-4/6-F
			散装公端子/ Single male terminal	RMC-PV-TLS-4/6-M	RMC-PV-TLS-4/6-M
	10	8	电缆端-母头/ Wire side – female	RMC-PV-10-W-F(+)	RMC-PV-10-W-F(01)(+)
			电缆端-公头/ Wire side –male	RMC-PV-10-W-M(-)	RMC-PV-10-W-M(01)(-)
			散装母端子/ Single female terminal	RMC-PV-TLS-10-F	RMC-PV-TLS-10-F
			散装公端子/ Single male terminal	RMC-PV-TLS-10-M	RMC-PV-TLS-10-M
手工拆卸版 Manual Unlock Type	2.5	14	电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(01)(+)
			电缆端-公头/ Wire side –male	RMC-PV-2.5/6-W-M-U(-)	RMC-PV-2.5/6-W-M-U(01)(-)
			散装母端子/ Single female terminal	RMC-PV-TLS-2.5-F	RMC-PV-TLS-2.5-F
			散装公端子/ Single male terminal	RMC-PV-TLS-2.5-M	RMC-PV-TLS-2.5-M
	4/6	12/10	电缆端-母头/ Wire side – female	RMC-PV-2.5/6-W-F(+)	RMC-PV-2.5/6-W-F(01)(+)
			电缆端-公头/ Wire side –male	RMC-PV-2.5/6-W-M-U(-)	RMC-PV-2.5/6-W-M-U(01)(-)
			散装母端子/ Single female terminal	RMC-PV-TLS-4/6-F	RMC-PV-TLS-4/6-F
			散装公端子/ Single male terminal	RMC-PV-TLS-4/6-M	RMC-PV-TLS-4/6-M
	10	8	电缆端-母头/ Wire side – female	RMC-PV-10-W-F(+)	RMC-PV-10-W-F(01)(+)
			电缆端-公头/ Wire side –male	RMC-PV-10-W-M-U(-)	RMC-PV-10-W-M-U(01)(-)
			散装母端子/ Single female terminal	RMC-PV-TLS-10-F	RMC-PV-TLS-10-F
			散装公端子/ Single male terminal	RMC-PV-TLS-10-M	RMC-PV-TLS-10-M

电缆端 – 母头
Wire side – female
RMC-PV-xx-W-F



母端子 – 单独件袋装
Female terminal as single
piece
RMC-PV-TLS-xx-F



公端子 – 单独件袋装
Male terminal as single
piece
RMC-PV-TLS-xx-M



电缆端 – 公头（选项-1：工具拆卸版）
Wire side –male(Option-1: Tool Unlock Type)
RMC-PV-xx-W-M

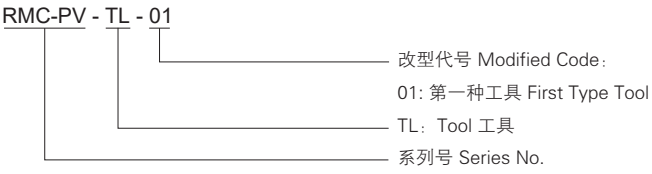
电缆端 – 公头（选项-2：手工拆卸版）
Wire side –male (Option-2: Manual Unlock Type)
RMC-PV-xx-W-M-U



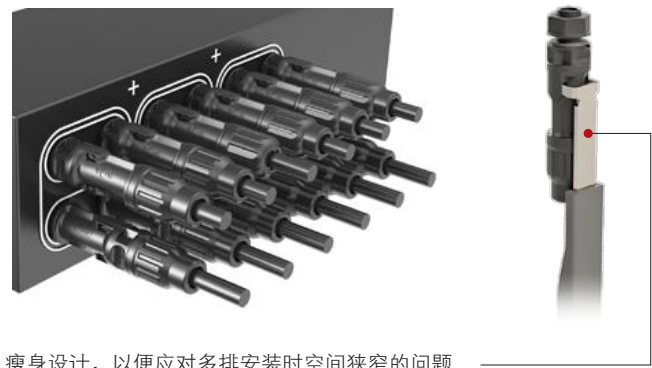
RMC-PV 光伏连接器 Photovoltaic Connector

RMC-PV-TL-01 安装和拆卸工具 Installation and Unlock Tool

命名规则 Naming conventions



便于在多排安装时操作；
可用于装配和拆卸航同RMC-PV全系列产品；
可用于装配和拆卸市场上部分其它品牌的产品；
Easy to operate in the multi-row installation;
For Hunttec RMC-PV Series;
For some other brands on the market;



瘦身设计，以便应对多排安装时空间狭窄的问题
Thin body design for operating in the multi-row installation



多功能设计，一把工具可用于多个位置
All in one design, The tool can be used to several positions

RMC-PV 光伏连接器 Photovoltaic Connector

RMC-PV 外壳组件选型指南 Shell Component Selection Guide

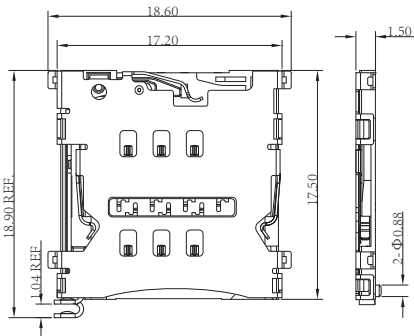
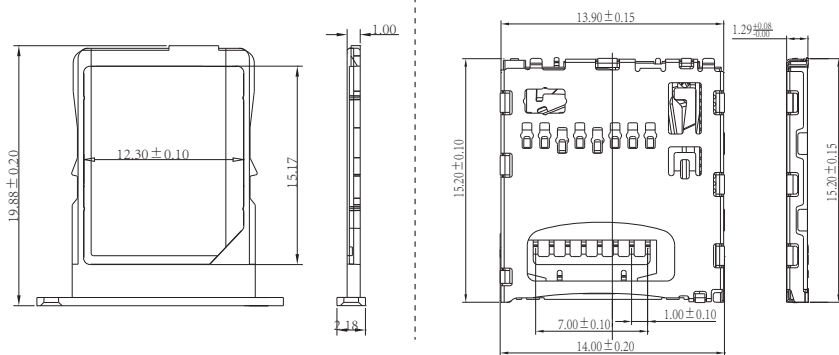
图片 Picture	名称 Name	型号 Spec.	导线截面积 Conductor Area		外壳尺寸 Shell size (mm)
			mm ²	AWG	
	设备端 - 母头 Device Side - Female	RMC-PV-2.5/10-D-F-D (-)	2.5	14	
		RMC-PV-2.5/10-D-F-D(BU) (-)	4;6	12;10	
			10	8	
	设备端 - 公头 - 工具拆卸版 Device Side - Male- Tool Unlock Type	RMC-PV-2.5/10-D-M-D (+)	2.5	14	
		RMC-PV-2.5/10-D-M-D(BU) (+)	4;6	12;10	
			10	8	
	设备端 - 公头 - 手工拆卸版 Device Side -Male- Manual Unlock Type	RMC-PV-2.5/10-D-M-U-D (+)	2.5	14	
		RMC-PV-2.5/10-D-M-U-D(BU) (+)	4;6	12;10	
			10	8	
	电缆端 - 母头 Wire side - Female	RMC-PV-2.5/6-W-F(+)	2.5	14	
		RMC-PV-2.5/6-W-F(BU)(+)	4;6	12;10	
		RMC-PV-10-W-F(+)			
		RMC-PV-10-W-F(BU)(+)	10	8	
	电缆端 - 公头 - 工具拆卸版 Wire Side - Male- Tool Unlock Type	RMC-PV-2.5/6-W-M(-)	2.5	14	
		(RMC-PV-2.5/6-W-M(BU)(-)	4;6	12;10	
		RMC-PV-10-W-M(-)			
		RMC-PV-10-W-M(BU)(-)	10	8	
	电缆端 - 公头 - 手工拆卸版 Wire Side - Male- Manual Unlock Type	RMC-PV-2.5/6-W-M-U(-)	2.5	14	
		RMC-PV-2.5/6-W-M-U(BU)(-)	4;6	12;10	
		RMC-PV-10-W-M-U(-)			
		RMC-PV-10-W-M-U(BU)(-)	10	8	

RMC-PV 端子选型指南 Termianl Selection Guide

图片 Picture	名称 Name	型号 Spec.	导线截面积 Conductor Area		端子尺寸 Terminal size (mm)
			mm ²	AWG	
	母端子 (卷带装) Female tml as reel	RMC-PV-TLR-2.5-F	2.5	14	
		RMC-PV-TLR-4/6-F	4; 6	12; 10	
		RMC-PV-TLR-10-F	10	8	
	公端子 (卷带装) Male tml as reel	RMC-PV-TLR-2.5-M	2.5	14	
		RMC-PV-TLR-4/6-M	4, 6	12, 10	
		RMC-PV-TLR-10-M	10	8	
	母端子 (散装) Female tml as single piece	RMC-PV-TLS-2.5-F	2.5	14	
		RMC-PV-TLS-4/6-F	4; 6	12; 10	
		RMC-PV-TLS-10-F	10	8	
	公端子 (散装) Male tml as single piece, packed by bag	RMC-PV-TLS-2.5-M	2.5	14	
		RMC-PV-TLS-4/6-M	4; 6	12; 10	
		RMC-PV-TLS-10-M	10	8	

- 设备侧，端子默认采用卷盘包装（便于自动化压线）
Terminal for device side, packed as reel (for automatic wire crimping)
- 电缆侧，端子默认采用塑料袋包装（施工现场安装）
Terminal for device side, packed as bag (for install in application field)

SIM Card Socket / SD Card socket

			
RSIM-6P		RSD-8P	
说明/Description		型号/Type	
SIM Card Socket/ SD Card socket		RSIM-6P-M-NP-15-01-01	
额定数据Rated data		RSD-8P-M-PP-12-01-01	
电压/Voltage	V	30V DC	
电流/current	A	0.5A max.	
工频耐压/Power frequency withstand voltage	V	AC500V, 1Min	
接触电阻/Contact Resistance		100mΩ max.	
耐插拔次数/Durability		5000 Cycles	
使用温度/Operating Temperature		-40℃ ~ +85℃	
执行标准/Standard		IEC60947-7-1 GB/T14048.7	
		位数Poles: 8P	
			

RUSB-9P-A-xx-01-L

- 1.接触电流额定值：引脚1和引脚4为1.8安培
0.25 安培其他触点

2.介电耐压：AC 100V（有效值）

3.绝缘电阻：最小100兆欧。

4.接触电阻：
引脚 1 和引脚 4 的最大 30mΩ
其他触点最大 50mΩ

5.工作温度：-55℃~+85℃

6.符合RoHS标准

1.Contact current Rating:1.8 Amperes for pin1&pin4
0.25 Amperes other contacts

2.Dielectric Withstanding Voltage:AC 100V(RMS)

3.Insulation resistance:100Megohms Minimum.

4.Contact Resistance:
30mΩ Max for pin1&pin4
50mΩ Max for other contacts

5.operating Temperature:-55 C ~+85 C

6.Compliant to RoHS

部件号代码/PART NUMBER CODE:

RUSB-9P-A-xx - 01 -L

- 外壳颜色:B=黑色 L=蓝色
HOUSING COLOR:B=BLACKL=BLUE

编号:01=直立，浸入
VARIFY NO.:01=UPRIGHT,DIP

触点电镀:01=闪光04=镀金15u"
CONTACTS PLATED:01=GOLD FLASH04=Au Plated 15u

类型/TYPE:A

密码/PIN No.

USB

引脚编号 Pin Number	信号名称 Signal Name	引脚编号 Pin Numkber	信号名称 Signal Name
1	VBUS	5	SSRX-
2	D-	6	SSRX+
3	D +	7	GND
4	GND	8	SSTX-
Shell	Shield	9	SSTX+

