## CviLux Group



### **Specification** Introduction

Sales Department



Date: 2022.10.18 am





# SOLVE

50%
Poor Connecting

Over 50% Electric System fault-points occur in the electric connecting loop. They are especially due to the unexpected disconnecting ,loosening and Improper human operation failure of high-voltage connecting. And they cause electricity deadly damage (about Arcing, Sparking, Fires...) to sub-system or power-train.

## The value of safety

Based Next-Generation Connector



# WHY

# Shock Vibration

- \* It affects device connectivity
- \* Cause high-temperature effects
- \* The small signal connection failure
- \* Increase safety of system connecting

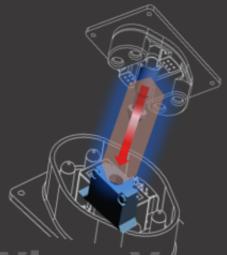


Connecting & Conveniency



## WHEREVER

Support remote Safety Unlocking





Rapid to Lock and Easy to Unlock

Cloud-Based Apps













When Your Device

Is Connecting AloT

# SPACE



## Integrated Value

The Integration of new energy demand and intelligent safety means maximum possible save space by easily combining power system or powertrain. It offers smart design, sales with turn-key Electric Harness service.

All In 1 Electric Harness

## SPEED



B USB 3.2 Type for Option

- USB 3.2 Gen2 Module Type
- Transmission Super Speed. 10G /20G

A POGO Pins for Standard

- Both sides ,Up to 12 pins
- Transmission : High Speed 1G
- Current up to 5A/per pin

Multi-Signals Option

## **Unique Value**

High Current

Module max up to 500 A

High Voltage

Max Up to 1,000 V

#### **Active Locker**

Safety Lock Mechanism Remote / Button for Unlock

#### Super Speed

Up to 10G / 20G **USB 3.2** GFN 2

Multi Signals

Up to 12 pins



**MINI HV** Series

**Active Latching High Voltage High SPEED** 

#### High-Mating Cycle

Standard to 500 times Mid Life up to 3,000 times High Life up to 10,000 times

#### Against Vibration

Enhance Safety to prevent accidental un-mating or loose

#### Certification **UL1977 UL4128**

**Ingress Protection** up to IPX5

**Customized Service** 

#### **CPA Mechanism**

**Connector Position Assurance** 



## Roadman





2021 Q1 2022 Q2 Q3

04

2023

O3

Q4

202X

Mating Cycle: 500 times / 3,000 times

High Speed : Pogo Pin Module

High Voltage: 400 Volt / 1,000 Volt

■ High Current: 75 AMP - 300 AMP / Module

Active Locker: 1 Way type

V-conn Design Pattern & Team Tooling & Manufacturing

- Applications
- Product Design
- Product Specification
- Customer Project Plan

 $\rightarrow$  10,000 times New

- → USB 3.2 Module New
  - → Dusk Cover Cap New
    - → 500 AMP /Module New

New Applications

- $\rightarrow$  2 Way type New
- Verification **UL1977 Standard UL4128 Standard**
- Product Launch
- IATF 16949
- Function Test
- Customer Authentication



<sup>\*</sup> The products reserve the right to modify - 2022.08.16 The information for priority customer design in advance

## CviLux Group

# **HOW Connector Innovation**

Is Quietly Leading Electricity Connecting Revolution

Making new Energy System more powerful than today's is not simple.

More powerful design means integrated multi-functions to handle more current and signals ,but limited space is too tight inside Energy System.

## **Specification**



## How to Choose Wisely

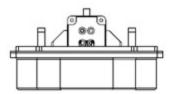


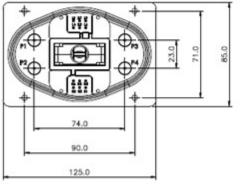
	CPF1	4	150	S	P	A	9	4	A	0
Product Code	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
	Model	Power Level / Rated current			M/F	Mixed Signals		Color	Locking	Fool-Proof
	Series NO	Number of Positions	Max current Per pin.	Power pin Plating	Male Female	Max Signal Use	Signal pin Plating	Body Color	Lock Method	Prevention Key
	CPF1 *HV Series	*Power Pins 4 *Power Pins	150 AMP 250 AMP *Standard Pin Type 3000 Times	\$ *Silver Plated	S *Receptacle & Socket P *Plug	A *6+6 pins B *6 + USB C *6 + 0 pins	9 *Gold Plated	*Orange Color	0 *W/O Lock & Solenoid Valve 2 in 1 Series	• W/O key P • With Key
	CPF2 *MINI HV Series  New	4 *Blades 8 *Blades	75 AMP *Blade Type 500 Times						A - 2 Way B - 1 Way *With Lock & Solenoid Valve 3 in 1 Series	

## Specification HV Series

31.2

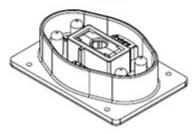
60.0











#### **Characteristics:**

- \* Rated current: 150A x 2 couple Conductor Area 53.5mm<sup>2</sup>
- \* Rated voltage: 1500V , both AC and DC
- \* Dielectric strength: 4000V AC
- \* Durability: 3,000 cycles
- \* Locking force: > 40 kgf
- \* IP67 in mated condition
- \* Operating Temperature: -40°C ~ 105°C

#### **Material**:

- \* RoHS Compliant
- \* Base:

High Temperature Plastic UL94V-0

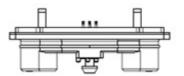
- \* Cover:
  - High Temperature Plastic UL94V-0
- \* Power Pin: Copper
- \* Signal Pin: Copper Alloy

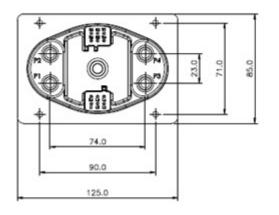
Plug Side 150<sup>AMP</sup> x2 couple

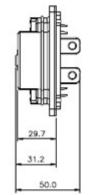
Main Code: CPF1 4150SPA94BP

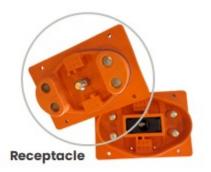


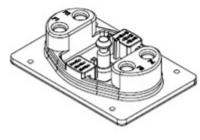
## Specification HV Series











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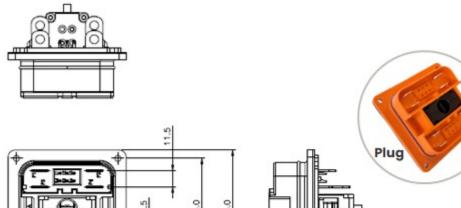
Unit: mm

Receptacle Side 150<sup>AMP</sup> x2 couple

Main Code: CPF1 4<u>150</u>S<u>S</u>A94<u>B</u>P

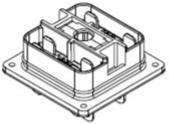


## Specification MINI HV Series



32.7

61.2





#### **Characteristics:**

- \* Rated current: 75A x 4 couple Conductor Area 26.7mm2
- \* Rated voltage: 600V , both AC and DC
- \* Dielectric strength: 2200V AC
- \* Durability: 500 cycles
- \* Locking force: > 40 kgf
- \* IP67 in mated condition
- \* Operating Temperature: -40°C ~ 105°C

#### **Material**:

- \* RoHS Compliant
- \* Base:

High Temperature Plastic UL94V-0

\* Cover:

High Temperature Plastic UL94V-0

- \* Power Pin: Copper
- \* Signal Pin: Copper Alloy

Plug Side 75<sup>AMP</sup> x4 couple

39.0

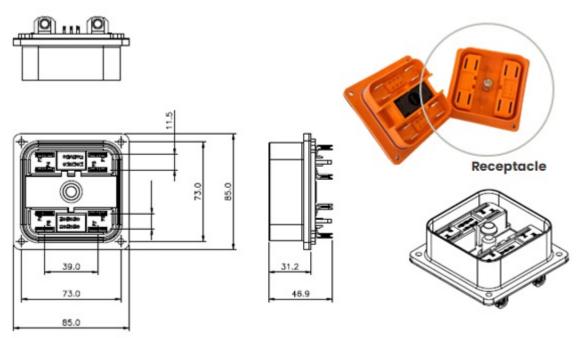
73.0

85.0 Unit: mm

Main Code: CPF2 8075SPA94BP



## Specification MINI HV Series



#### **Characteristics:**

- \* Rated current: 75A x 4 couple Conductor Area 26.7mm2
- \* Rated voltage: 600V , both AC and DC
- \* Dielectric strength: 2200V AC
- \* Durability: 500 cycles
- \* Locking force: > 40 kgf
- \* IP67 in mated condition
- \* Operating Temperature: -40°C ~ 105°C

#### **Material**:

- \* RoHS Compliant
- \* Base:

High Temperature Plastic UL94V-0

- \* Cover: High Temperature Plastic UL94V-0
- \* Power Pin: Copper
- \* Signal Pin: Copper Alloy

Unit: mm

Receptacle Side 75<sup>AMP</sup> x4 couple

Main Code: CPF2 8075SSA94BP







**Contact Us & Thanks** 

V-CONN<sup>™</sup>
Advanced Innovation

