Amass Product Specification Sheet

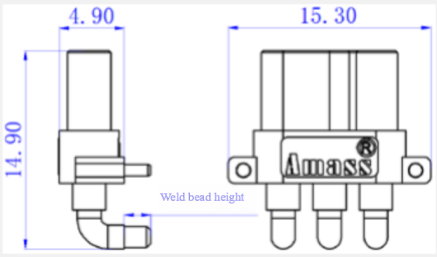
I. Product Overview

A 3-pin connector that can be directly welded onto a PCB – compatible with the MR30; its compact design maximizes space savings.

II. Application Module

☐lithium cell ☐any power-generating or power-driven machine ☑controller ☐charger ☐other

III. Product Schematic Diagram

Product picture	External Design Drawings
	

Final product model	Weld bead height
MR30PW20-F.G.*	2.0mm
MR30PW30-F.G.*	3.0mm

IV. Specifications

Material	Specifications	Electroplate	Coating thickness
Metalwork	H59-1	G: Thick gold plating (Au)	0.03μm
Material	**Specifications**	**Pigment**	**Flame retardancy rating**
Shell	PA66	*Y = Yellow; B = Black	UL94-V0

V. Specifications Table

Behaviour of electricity	Test method	Characteristic
Withstand voltage	UL1977	DC 500V
Rated current	UL1977	15A
Contact resistance	GB/T5095.2	1.20mΩ
Insulation resistance	GB/T5095.2	2000MΩ
Instantaneous current	&A 1min ＜80℃	30A
Temperature rise	UL1977	15A 4h ＜60℃
Creepage distance	GB/T2900.18	2.10mm
Mechanical behavior	**Standard**	**Characteristic**
Insertion force	GB/T5095.8	1.8kg-4.0kg
Withdrawal force	GB/T5095.8	1.8kg-4.0kg
Insertion/Removal Lifespan	GB/T5095.1	100 times
Levels of protection	GB/T4208	IP40
Environmental performance	**Standard**	**Characteristic**
End-use temperature	GB/T 2423.3	-20℃ to 120℃
Salt spray	GB/T 2423.17	48h

VI. Recommended Cross-Sectional Current Capacity

mm^2	Temperature rise: 60°C	Temperature rise: 85°C
16#	20A	25A
18#	15A	20A
20#	10A	15A

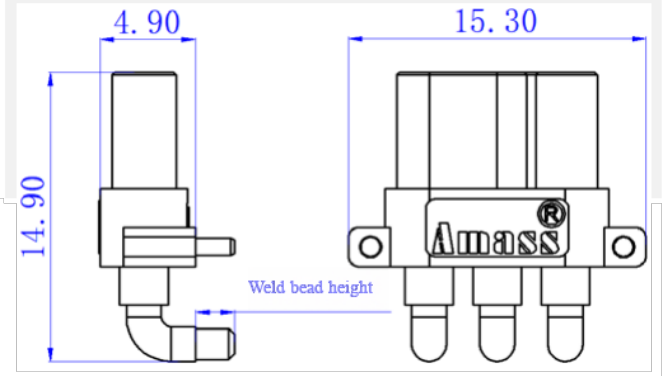
VII. Selection and Configuration Instructions

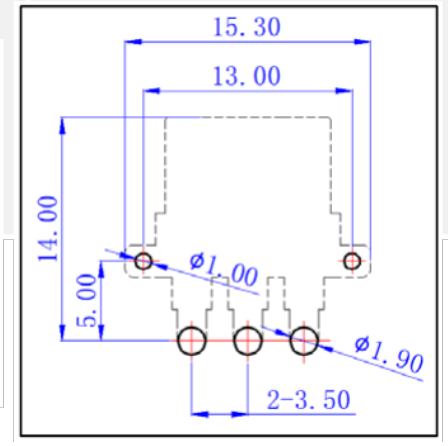
☐With rear cover ☐With snap扣 ☐waterproof ☐Fire Prevention

VIII. Qualification Certificate

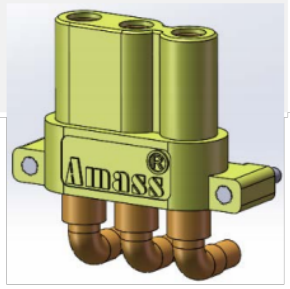
☑ UL ☑ CE ☑ RoHS 2.0 ☐ Reach

IX. Installation Recommendations





Installation Hole Schematic Diagram



matters need attention:

During use, please do not exceed the rated current or voltage.



- Current and voltage overloads can lead to faults and accidents.
- Inserting or removing connectors while the device is energized may cause malfunctions or accidents; therefore, please insert or remove the connectors only when the device is de-energized.

Do not use the device while applying external force to the connector.



- Do not power on the device while the connector or wire is under mechanical stress. Excessive external force may cause damage, leading to malfunctions or accidents; therefore, do not use the device under such conditions.
- Connectors are designed as connection components for circuits; therefore, do not use them as part of structural components such as housings.

Please confirm the operating environment.



- Do not use in environments with high temperature or high humidity.
- Use outside the environment specified in the specification may cause malfunctions; therefore, do not operate this device under such conditions.

Use with caution.



- The connector is a precision component; please handle it with care during use.
- Please exercise caution from the moment you open the packaging;

even for products packaged in items such as load-bearing straps or packaging tubes, severe impact can still cause issues such as terminal deformation, bending, or disengagement.

Prepared by: **examine and verify:** **ratify:**