

HDC BESS STACKED HYBRID CONNECTOR 120 A

TE Connectivity (TE), a global leader in connectivity and sensing, introduces the latest range of HDC, the HDC BPSC (Battery Power Signal Connector) stacked hybrid connector 120 A for BESS (battery energy storage systems) application. With its smart hybrid design, it provides a safer, more reliable and more flexible residential BESS power & signal stacked connectivity connection.

The latest generation of BPSC hybrid stacked connector uses materials with excellent electrical conductivity and composite terminal technology providing outstanding terminal conductive efficiency and excellent lower temperature rise control. This supports the safety and reliability of the system's life cycle.

FEATURES

- Hybrid design
- Mating cycle: up to 500 cycles
- Screw with upto 120 hrs salt spray resistance

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BENEFITS

- Hybrid design to integrate more pins of power & signal
- Higher safety: Uses excellent conductivity contact to provide low temperature rise performance
- Excellent reliability design to help enable greater manufacturing tolerance
- Contact insertion with ≥ 4 mm overlap
- Floating design: 2.5 mm Max.
- Higher reliability signal transmission performance with golden plating
- Flexible platform compatibility with high power voltage 1000 V solution
- Improved operational efficiencies: The stamping contact for 120 A and 5 A contact design enables crimping with automotive machine to help improve cycle time & quality consistency
- Environmental inclusiveness: High anti corrosion screw with 120 hrs salt spray resistance

APPLICATIONS

- Residential BESS
- Commercial BESS

ELECTRICAL

- Power: 120 A/1000 V *4 pins
- Power: 20 A/400 V *2 pins
- Signal: 5 A/50 V *12 pins

MECHANICAL

- Floating: 2.5 mm Max.
- Contact overlap dimension: ≥ 4 mm

SPECIFICATIONS

- 108-137712
- 501-137712
- 114-137712

MATERIALS

- PBT
- Cu
- SUS

STANDARDS

- UL 4128: Outline of investigation for intercell and intertier connectors for use in electrochemical battery system applications
- EN 61984: Connectors - safety requirements and tests
- IEC 60068: Environmental testing
- IEC 60512: Connectors for electronic equipment - test and measurements
- IEC 60664-1: Insulation coordination for equipment within low-voltage systems (Part 1)
- EN 61373: Railway application - rolling stock equipment - shock and vibration test
- ISO 6988: Metallic and other non-organic coatings - sulfur dioxide test

CERTIFICATIONS

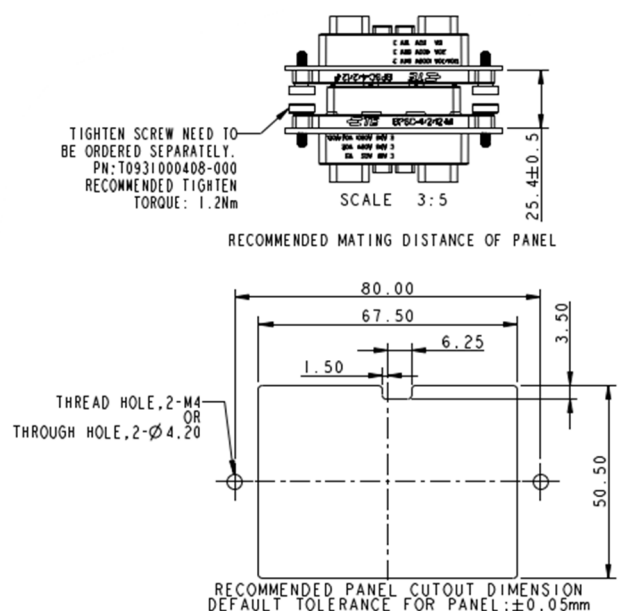
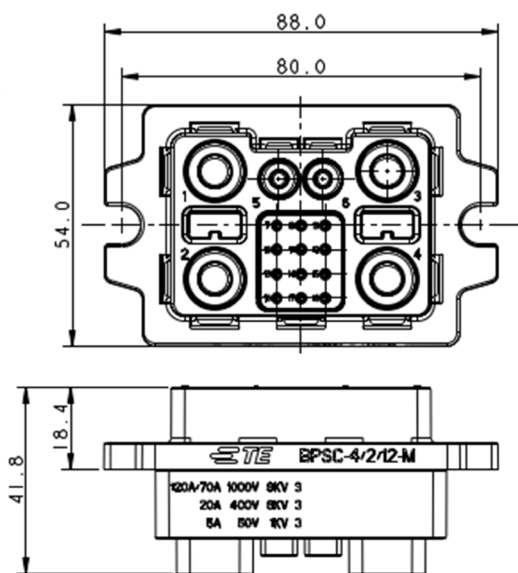
- UL4128
- TUV PPP51090B
- CE
- Rohs

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PART NUMBERS

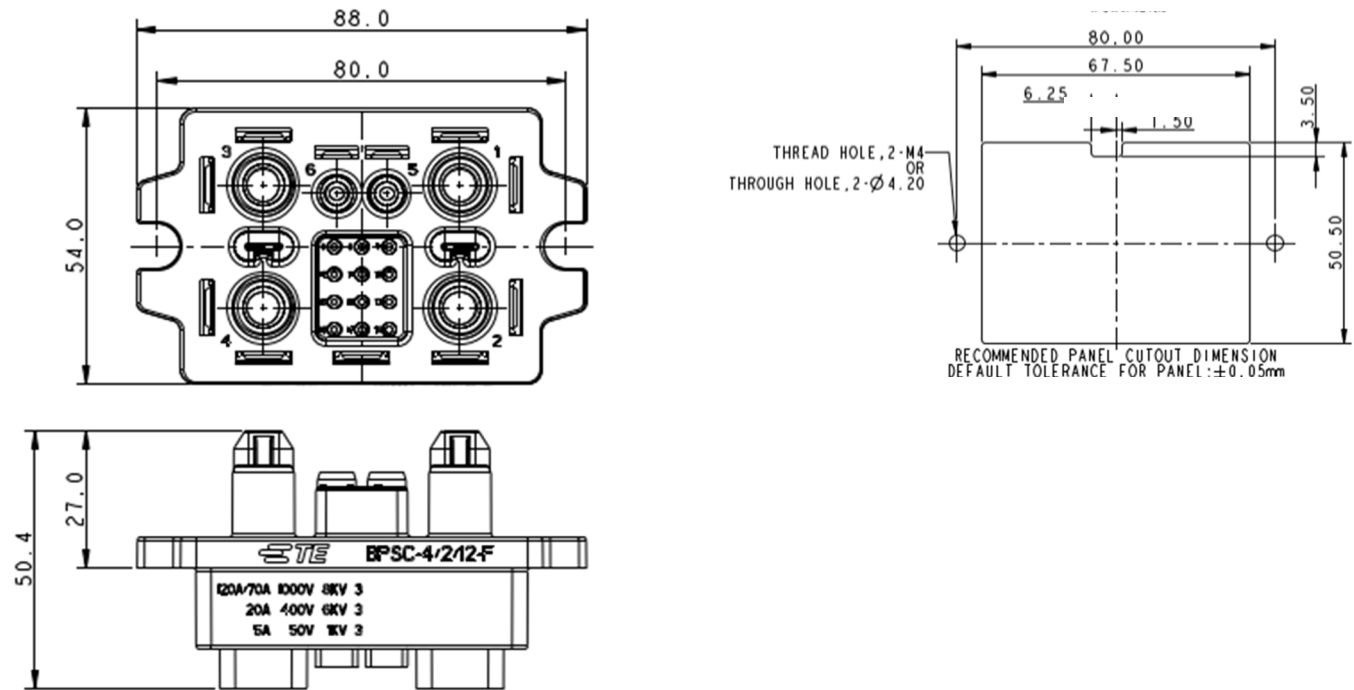
Type	Part Number	Part Description	Part Name
Male Insert	T210018A101-000	BPSC-4/2/12-M	BPSC-4/2/12 male insert
Male Contact	T2250001250-000	SCSM16-25	Ø6.0mm male contact, silver plated, 16 mm ² -25 mm ²
	T2031001040-100	MCEM-4.0	Ø2.5mm male contact, silver plated, 4.0 mm ²
	T2210011008-000	SDAM0.5-0.75	Ø1.0mm male contact, silver plated, 0.5 mm ² -0.75 mm ²
Female Insert	T210018A201-000	BPSC-4/2/12-F	BPSC-4/2/12 female insert
Female Contact	T2250002250-000	SCSF16-25	Ø6.0mm female contact, silver plated, 16 mm ² -25 mm ²
	T2030002040-000	CEF-4.0	Ø2.5mm female contact, silver plated, 4.0 mm ²
	T2210012008-000	SDAF0.5-0.75	Ø1.0mm female contact, silver plated, 0.5 mm ² -0.75 mm ²
Floating screw	T0931000408-000	-	M4 Stainless steel screw, flat head

MALE INSERT: T210018A101-000



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FEMALE INSERT: T210018A201-000



Note: All dimensions in mm

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