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Heyco Solar Junction Box – Three Diode Design
Model No. PVB-301

This three diode junction box is intended to accommodate a 4 ribbon panel and will be offered in a vented, IP 65 version. Cable strain relief will be incorporated into the box.

Junction box specifications:

Electrical rating:

- Maximum Voltage: 600VDC UL/ 1000VDC TUV.
- Nominal voltage 40VDC, Current Rating 10A.
- Three bypass diodes rated for short circuit of 12.5A, 40 V peak reverse voltage.
- Open-circuit rating 40V.
- TO-220 Schottky diodes rated at 18A with 40 V reverse voltage, Diotec SBT 1840.
- Contact resistance <1 m .

Ambient Temperature range:

- -40°C to +105 °C, UL
- -40°C to +85 °C, TUV

Cable and connections:

- Low insertion connections Heyco P/N 7291.
- Connector type Heyco CPV series.
- UL and TUV 600/1000V rated cable, 1x4 (12AWG).

J Box Dimensions (approximate L x W x H in.)

- 4.375” (L) x 3.64” (W) x 1.12” (H)
- 1” ribbon spacing

Construction material:

- Injection molded cover and base molded from UV resistant polycarbonate material.
- 125°C RTI Elec., 125 °C Str., UV protection (f1),UL 94 5VA flammability rating.
- 4 internal buss bars fabricated from pre-tinned 70/30 cartridge brass.
- PTFE venting material.
- Heat Sink fabricated from 6063-T5 anodized aluminum.

Designed for certification per: UL 1703, IEC-61215, IEC-61730, EN50548

Regulatory Approvals: UL Recognized E325860,
TUV Certificate No. 72111836