

SOLEXUS SOLAR JUNCTION BOX SERIES 1104 CD

Solexus 1104 CD series is a standard profile junction box, equipped with an electronic device simulating the bypass diode functions.

The junction box can be equipped with 2 to 9 diode functions.

The module can have up to 9 sub sections to improve the yield in shaded areas.

The junction box is available in a version for standard ribbon configuration, for integrated 8 pole connector and for back-contacting crystalline solar cells.

JUNCTION BOX - ELECTRICAL CHARACTERISTICS

- Rated voltage: TUV:1000V DC / UL:600V DC
- Working voltage 40 V DC
- Contact resistance: $\leq 5m \Omega$
- Current rating: up to 20 A
- Safety Level: class II
- Diodes: 2-9

DIODE CHARACTERISTICS

- Electronic device in the junction box, supporting 2-9 diode functions
- Current rating: up to 20 A (higher on request)
- Power consumption 50 mW to 250 mW
- Switching point: 300mV

MECHANICAL CHARACTERISTICS

- Locking mechanism to align top and bottom housing
- Ambient temperature range: $-40^{\circ}C + 85^{\circ}C$
- Overall dimensions:
 - Length: mm
 - Width: mm
 - Height: 32mm
- Cable type: $4mm^2$ (12AWG)
- Cable length: 1 m, other length on request
- Connectors: MC4 compatible / other connectors on request
- Housing material: PPO (Polyphenylene Oxide)
- Housing color: Black
- Flame class: UL94-V0
- Contacts:
 - Material: Copper alloy
 - Plating Contact Area: Tin (Sn) over Nickel (Ni)
- Cable pull-out force: 500 N

ENVIRONMENTAL CHARACTERISTICS

- Halogen free, RoHS
- Shell protection degree: IP67
- Lead-free solder

