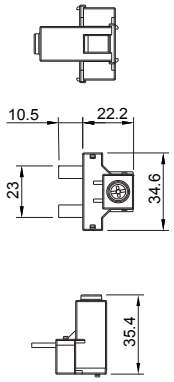
Y-Comb Terminal Block Manual

PRODUCT INSTRUCTION

APPLICATIONS:

The Y-Comb Terminal Block is intended for use in the SCH100/125KTL-DO/US-600 and SCA50/60KTL-DO/US-480 inverters. This accessory is applied between two adjacent fuseholders within the inverter wire-box and distributes current between the two fuses. When products such as Y-branch connectors are used in the array field to combine the output of two strings the current is as much as 30 or 40A. In order to distribute current and provide optimal thermal results the Y-Comb Terminal Block is required.

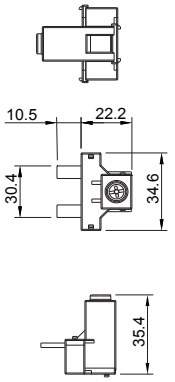
BHT100 1000V Terminal Block



SPECIFICATIONS:

- Rated Voltage: 1000 VDC
- Rated Current: 60A
- Torque: 26.5 in-lbs (3.0 N.m)
- Wire Range: 13 - 5AWG
- Operation Temperature: -40°C ~ +130°C

BHT200 1500V Terminal Block



SPECIFICATIONS:

- Rated Voltage: 1500 VDC
- Rated Current: 60A
- Torque: 26.5 in-lbs (3.0 N.m)
- Wire Range: 13 - 5AWG
- Operation Temperature: -40°C ~ +130°C

APPLICABLE MODELS

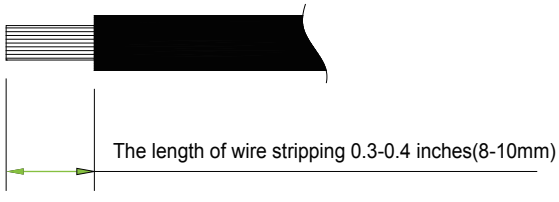
BHT100 1000V Terminal Block: CPS SCA50KTL-DO/US-480, CPS SCA60KTL-DO/US-480
BHT200 1500V Terminal Block: CPS SCH100KTL-DO/US-600, CPS SCH125KTL-DO/US-600

INSTALLATION TOOLS

NO.	Tools	Remark
1	Diagonal pliers	Cut cable
2	Wire stripping pliers	Remove jacket
3	No.2 Phillips head screwdriver	DC cable for wirebox

REQUIREMENTS OF WIRE STRIPPING

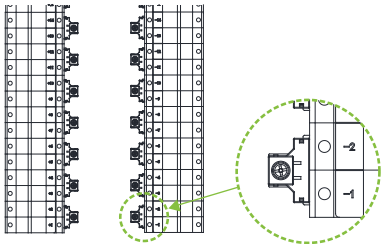
Use 12-6 AWG (75/90°C CU only) cable overall diameter: <7.3mm



INSTALLATION STEPS

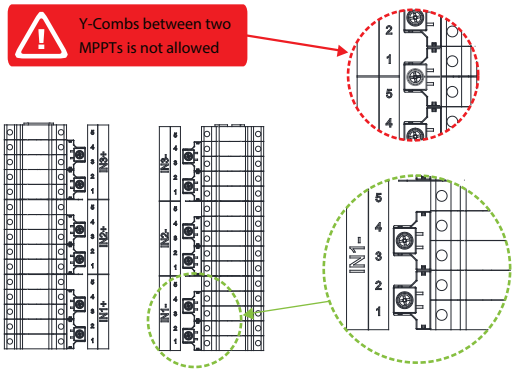
Location of the Y-Comb Terminal Block is dependent upon the inverter model in which it is installed. The images below depict the proper installation of the Y-Comb in the SCH100/125KTL-DO/US-600 and SCA50/60KTL-DO/US-480 inverters.

100/125KW WIREBOX (20-PIECE 1500V TERMINAL BLOCK KIT)



The 1500V Y-Comb Kit is supplied with 20 each Y-comb terminal blocks. This is the maximum number of Y-comb terminal blocks capable of being installed in the SCH100/125KTL-DO/US-600 inverters. The image to the left depicts the proper installation location.

50/60KW WIREBOX (12-PIECE 1000V TERMINAL BLOCK KIT)

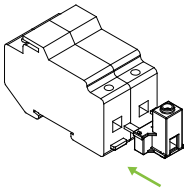


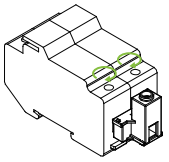
The 1000V Y-Comb Kit is supplied with 12 Y-Comb terminal blocks. This is the maximum number of Y-comb terminal blocks permitted to be installed in the SCA50/60KTL-DO/US-480 inverters. Y-Combs must be installed within a single MPPT. It is important to ensure the separate MPPT channels are not bridged by a Y-Comb terminal block. The image to the left depicts the proper installation location.

INSTRUCTIONS TO CONNECT Y-COMB

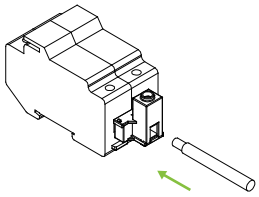
As shown in the figures below, the Y-Comb Terminal connects to two adjacent fuseholders.
The PV output conductors are then connected to Y-Comb Terminal.

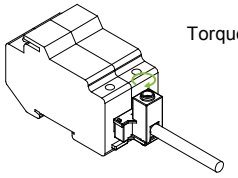
1. Insert Y-Comb into the fuseholder
2. Secure the Y-Comb to the fuseholder by torquing to the specified value
3. Insert the PV output conductor into the Y-Comb
4. Secure the conductor by torquing to the specified value





For 50/60KW UL: Torque 30 in-lbs (3.4N.m)
For 100/125KW UL: Torque 26.5 in-lbs (3N.m)





Torque 26.5 in-lbs (3N.m)

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