



STRING COMBINER BOX

TSCB – 300

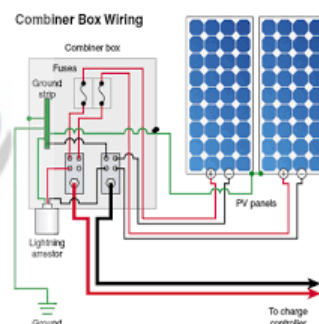
The String Combiner Box combines the multiple DC input coming from the panel termination and converts these into one DC output. It provides additional protection with input fuses & surge protection devices. Operation and maintenance is made easier using DC switches. These solutions are customizable.

Solar PV string combiner & monitoring box is one of the most critical components in the solar plant. It is the first junction point wherein multiple strings from the PV modules are collated to give a single output to the inverters



It is a fully customizable box ranging from 1 input to 32 inputs & can be designed at voltage levels 600 VDC, 1000 VDC, & 1500 VDC.

A string monitoring box is an intelligent combiner box wherein monitoring of each strings is possible i.e. a plant owner can monitor individual string current, voltage, SPD status, DC switch status, Temperature inside the box etc.



TECHNICAL DATA

ENCLOSURE	
MATERIAL	GRP / FRP / PC
DEGREE OF PROTECTION	IP 65 UPTO IP68
UV RESISTANCE	YES
LOCKING ARRANEMENT	HING & LATCH
MOUNTING TYPE	WALL MOUNT / STRUCTURE MOUNT
ELECTRICAL PARAMETER	
RATED DC VOLTAGE	600V / 1000V / 1500 V
TOTAL PERMISSIBLE DC CURRENT	UPTO 500A
MEASUREMENT VOLTAGE SUPPLY	24V DC
DC SWITCH RATING	200A UPTO 500A
SURGE PROTECTION DEVICE	
1000V / 1500V	CLASS 2 SPD / CLASS T1+T2 SPD

INPUTS	
NO.OF DC INPUT (+Ve & -Ve)	AS PER CLIENT REQUEST
INPUT DC ENTRANCE	MC4 TYPE CONNECTORS / IP68 GLAND
FUSES	OPTIONAL UP TO 30A (10/12/15/20/25/30)
EARTHCABLE	UPTO 16 SQMM
EARTH ENTRANCE	IP68 GLAND / MC4 CONNECTORS
OUTPUTS	
NO.OF DC OUTPUT (+Ve & -Ve)	1
DC OUTPUT CABLE SIZE	UPTO 400 SQMM
DC OUTPUT CABLE EXIT OPERATING TEMOERATURE	IP 68 POLYAMIDE GLAND / METALLIC GLAND / 10 TO 70 DEGREE
DC SWITCH RATING VOLTAGE	OPTIONAL UPTO 1500V (600V / 100V / 1500V)
DC SWITCH AMP RATING	OPTIONAL UPTO 500A (200A / 250A / 305A / 400A / 500A)

SERTEL COMBINER BOX TEST STANDARDS

TEST STANDARDS

EN 61439-2:2011



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