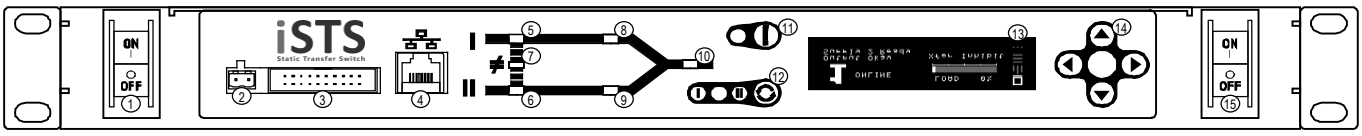
iSTS B1

STATIC POWER
SMART | SOLID | SAFE



1	Supply 1 Isolator Switch	**9**	On Supply 2 LED
2	Dedicated General Alarm Contact	**10**	Output Okay LED
3	Remote BMS Contact	**11**	Alarm LED & Alarm Cancel/Acknowledge button
4	Ethernet Connector	**12**	Preferred Source Indicator & Transfer Button
5	Supply 1 OK LED	**13**	Graphic OLED LCD Interface
6	Supply 2 OK LED	**14**	Navigation Buttons
7	Sync OK LED	**15**	Supply 2 Isolator Switch
8	On Supply 1 LED		

A. SETUP

a. To access the input and output terminals at the rear of the cradle, remove the 2 screws on each of the gland plates and then remove the plate.
b. Cable size is limited to 6mm² (#10). The terminals are suitable for tin-plated stranded cables from 2.5mm² to 6mm² (nominal current is 41A). Strip cables to a length of 10mm.
c. Connect Active, Neutral and Earth cables to the respective spring cage terminals as marked on the board. Secure the connections on the terminal blocks, torque the screw between 0.5 – 0.6Nm. All cables connecting to the STS should be supported and not weigh the rear of the STS or strain the point of connection.
d. Due to the nature of Silicone Controlled Rectifiers (SCRs), some load of 0.5A is required to test correct operation

B. STARTUP

a. Make sure the bypass switch on the rear of the unit is set to the middle Normal position.
b. Apply power to both input sources. Make sure that the rated voltage for the unit corresponds to the ratings plate and the local supply voltage. Ensure that the two input sources are within tolerance, and that they are in synchronism. (±15% of rated voltage, <10% THD, <15º phase difference).
c. There will be a 15 second start-up period, after which the STS will begin powering your load.
d. Confirm that the load is receiving power.
e. Ensure that LEDs are correctly representing the supply status and load. Only On Supply 1 LED or On Supply 2 LED should be red, not both.

C. CONFIRM

a. Press the Preferred Button to highlight 'I' on the Preferred Indicator. Wait for the STS to transfer to Supply 1, if is not already on Supply 1. On Supply 1 LED will turn green.
b. Turn off Supply 1. Confirm that the STS transfers to Supply 2. On Supply 2 LED will turn green.
c. Turn on Supply 1. Confirm that the STS automatically transfers to Supply 1 after a 3 second delay. On Supply 1 LED will turn green.
d. Press the Preferred Button to highlight 'II' on the Preferred Indicator. Wait for the STS to transfer to Supply 2. On Supply 2 LED will turn green.
e. Turn off Supply 2. Confirm that the STS transfers to Supply 1. On Supply 1 LED will turn green.
f. Turn on Supply 2. Confirm that the STS automatically transfers to Supply 2 after a 3 second delay. On Supply 1 LED will turn green.
g. The operational test is complete. You can now select a preferred supply if any.

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