

Additional Instructions for SR100i.... LAN

Default Settings

| Parameter | Nominal Voltage | | | | | Default Value |
|---|-----------------|------|------|------|------|------------------|
| | 12V | 24V | 30V | 36V | 48V | |
| * ¹ V out = Output Voltage | 13.8 | 27.6 | 34.5 | 41.4 | 55.2 | 2.3V/cell |
| * ² V pres = Voltage threshold for battery detection & battery condition test (BCT). If voltage drops to this level during BCT then the test is aborted and BATT SYS OK alarm activated. . | 12.2 | 24.4 | 30.5 | 36.6 | 48.8 | 2.03V/cell |
| * ² V shudt = Output voltage of PSU during battery detection & BCT | 11.5 | 23 | 28.8 | 34.5 | 46 | 1.92V/cell |
| * ² V batl = voltage where BATT low alarm activates during mains fail | 11 | 22 | 27.6 | 33 | 44 | 1.84V/cell |
| * ² V disco = Battery disconnect level on low voltage during mains fail | 10 | 20 | 25 | 30 | 40 | 1.66V/cell |
| * ² Bccl = Maximum charge current as % of rated PSU rated current | | | | | | 100% |
| * ² Comms = communications mode of PSU: F = continuous data stream of status M = responds only to request made by a controller | | | | | | F |
| * ³ BatDetect = Battery detection interval time, active only when no battery charge current is detected (the unit may not detect a missing battery for up to this time) | | | | | | 60 min |
| * ³ BCT = length of battery condition test | | | | | | 20 min |
| * ³ Ret = retest option: N = after a failed BCT further scheduled BCTs are inhibited Y = after a failed BCT further scheduled BCTs will be allowed | | | | | | Y |
| * ³ CC = Length of charge cycle in minutes/hours/days. ie. time between battery condition tests | | | | | | 40m/23h/ 027d |
| * ³ MfiBCT = time before mains fail check during BCT. A mains fail during a BCT will stop the BCT. If set longer than BCT time no mains fail check will occur. | | | | | | 030 min |

CAUTION:

Care should be exercised when reprogramming the above parameters as there is no reset to default function in this model. Please contact your distributor if unable to restore values.

NOTES:

- *¹ Output voltage is set by an internal potentiometer on the printed circuit board.
- *² These parameters are adjustable using the procedure outlined in this instruction sheet.
- *³ These parameters are set using a batch file. Please contact your supplier for further information

Procedure for programming *² parameters using a PC:

Disconnect battery, insert jumper in the “CHANGE PARAMETER” position as shown in figure 2. The jumper normally used for the BCT enable function can be removed and used for this. Use “Caps Lock” for letter keystrokes.

Assuming the comms port has been set up previously (see User Manual), start MS Hyperterminal or equivalent programme. The following will be displayed:

/ CC BM Vout:13.7V Ibat: 00.0A Ipsu:00.1A + 23øC

1. Press "2", the display will show what we shall call the status monitoring view:

**IEL NB5sys.V13 SR100C12T
s/n: 0025 2724 BatDetect:060m
Vpres(1):12.2V Vshutd(2):11.5V
Vbatl(3):11.0V Vdisco(4):10.0V
Bccl(ABC):100% BCT:020m Ret:Y
Comms(MF):F CC:40m 23h 027d
MfiBCT:060m
- CC BM Vout:13.7V Ibat: 00.0A Ipsu:00.1A + 23øC**

2. Press "Esc" key:

**adj. temp. (+-)
+ 19øC**

This calibrates the temperature readout which is factory set and should not need adjusting. To adjust, use "+" or "-" keys.

3. Press "Esc" key.

**adj. temp. (+-)
+ 19øC
test & cal. mode
set Vout POT2
< > Voffset
+ - to adj Vout
esc to exit
Vout:13.8V**

The V out value showing here should be the actual PSU (load) output which is adjusted via an internal pot. on the PCB. To calibrate the V out readout, press the "<" or ">" keys.

4. Press "Esc" key. This will return you to the status monitoring view:

**IEL NB5sys.V13 SR100C12T
s/n: 0025 2724 BatDetect:060m
Vpres(1):12.2V Vshutd(2):11.5V
Vbatl(3):11.0V Vdisco(4):10.0V
Bccl(ABC):100% BCT:020m Ret:Y
Comms(MF):F CC:40m 23h 027d
MfiBCT:060m
/ CC BM Vout:13.7V Ibat: 00.0A Ipsu:00.1A + 23øc**

The following steps will enable the user to set the parameters shown in Table 1 at the end of these instructions.

5. From the status monitoring view, press "Esc" key twice

adj. temp. (+-)
+ 24□C
test & cal. mode
set Vout POT2
< > Voffset
+ - to adj Vout
esc to exit
Vout:13.7V

The Vout value shown will now be used to set the values for Vpres, Vshutd, Vbatl & Vdisco. Press “+” or “-” key to change Vout value, the next key stroke will set the value as per Table 1 below.

As an example, to set Vpres to 12.0V use the “-” key until Vout shows 12.0, then press “1”.

adj. temp. (+-)
+ 24C
test & cal. mode
set Vout POT2
< > Voffset
+ - to adj Vout
esc to exit
Vout:12.0V
Vpresent stored
Vout:12.0V

Repeat to set the next parameter or “Esc” to return to the status monitoring view.

IEL NB5sys.V13 SR100C12T
s/n: 0025 2724 BatDetect:060m
Vpres(1):12.2V Vshutd(2):11.5V
Vbatl(3):11.0V Vdisco(4):10.0V
Bccl(ABC):100% BCT:020m Ret:Y
Comms(MF):F CC:40m 23h 027d
MfiBCT:060m
\
CC BM Vout:13.7V Ibat: 00.0A Ipsu:00.1A + 24□C

6. To set maximum charge current, Bccl.

From the status monitoring view, press “Esc” key twice (as in step 5). Then press “A”, “B” or “C” to set the desired % of rated PSU current. For example , press “C” to set Bccl at 100%.

adj. temp. (+-)
+ 24□C
test & cal. mode
set Vout POT2
< > Voffset
+ - to adj Vout
esc to exit
Vout:13.7V
Bccl 100%
Vout:13.7V

Press “Esc” to set and return to the status monitoring view.

7. Communication mode, use “F” or “M” to set. Normally this is set on “F” (continuous data).
8. Serial No. Setting
This is preset in from the factory but can be altered as per table1. **Do not enter more than four digits.**
9. **Remove jumper** (replace in BCT enable position if this jumper was used)
10. If other parameters are required to be altered please contact your distributor.

| Parameter to be stored | Key Stroke |
|------------------------|---|
| Vpres | “1” |
| Vshutd | “2” |
| Vbatl | “3” |
| Vdisco | “4” |
| Bccl | “A” = 25%, “B” = 50%, “C” = 100% |
| Comms | “F” = continuous, “M” = on request |
| Serial No. | “S” followed by the last four digits of the serial no. Do not try to alter the first four digits which are already displayed. |

Table 1.

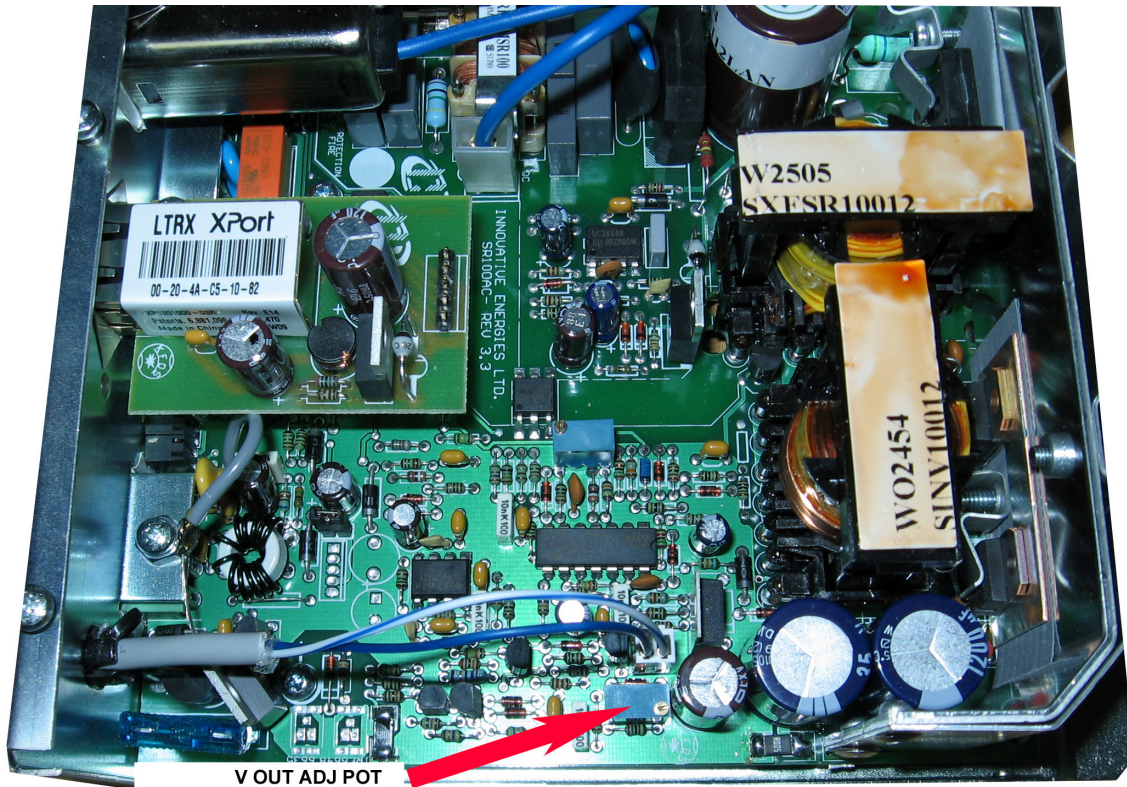


Figure 1

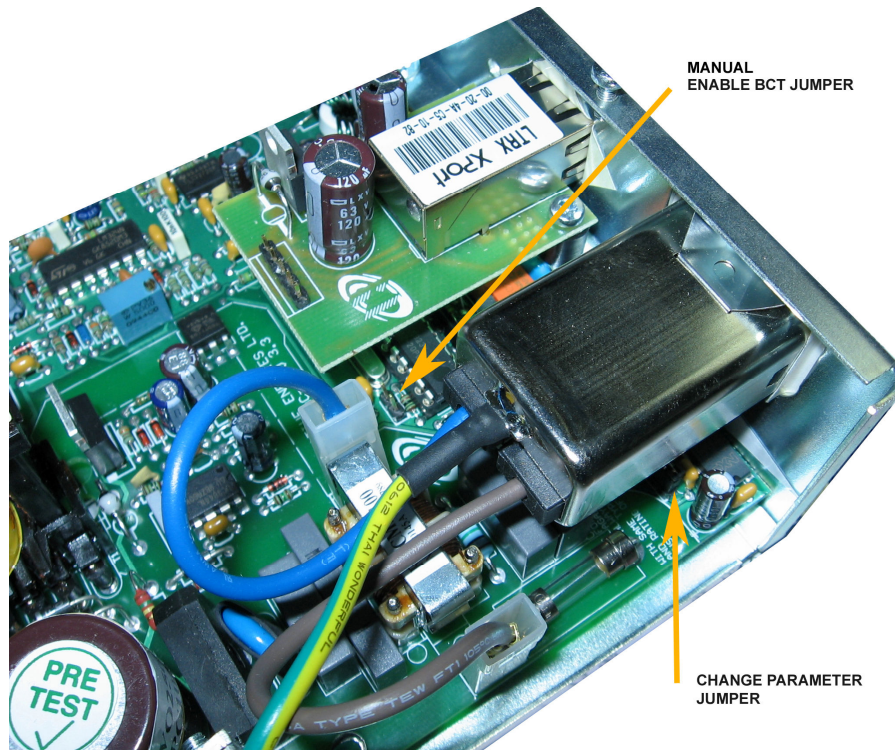


Figure 2