



OutBack.

OutBack:

-

-

OutBack

-

OutBack,

-

-

U.S.

United States,

-

, OutBack

OutBac

OutBack

FLEXnet DC © 2007-2009.

POWER SYSTEMS»

(a)

(b)

, 2009

OutBack Power Systems
19009 62nd Ave. NE
Arlington, WA 98223
(360)435-6030
(360)435-6019

www.outbackpower.com

FLEXnet DC.

FLEXnet DC , , OutBack
MATE, .

FLEXnet DC (AUX).

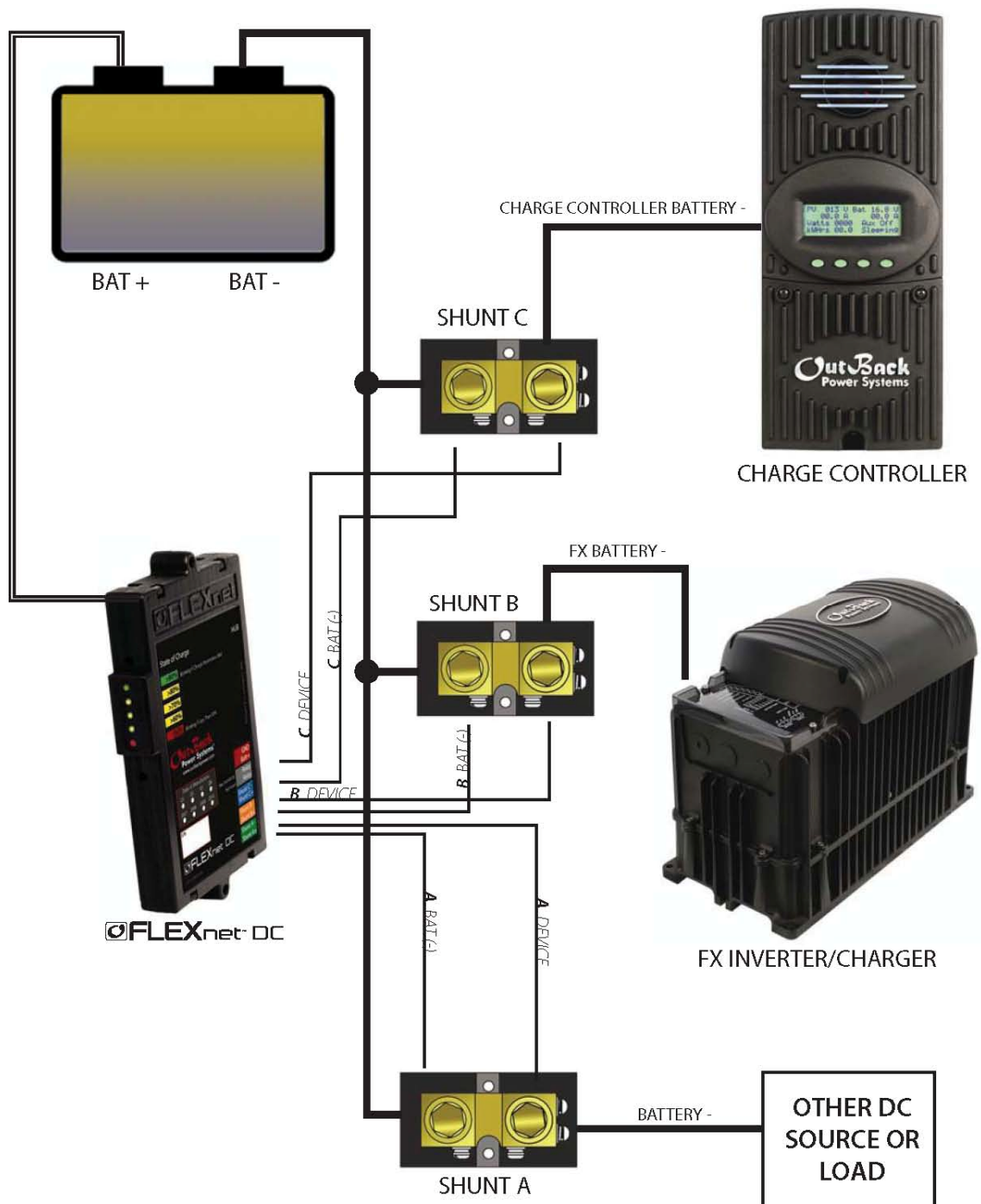
FLEXnet DC (FW-
SHUNT250 FW-SHUNT500, 500A/50mV).
OutBack

FLEXnet DC.

HUB 4 HUB 10 (OutBack Power Systems),
FLEXnet DC.

FLEXnet DC MATE MATE2, ,
MATE2M.

- : OutBack FW500-DC
FW1000-AC.
- .



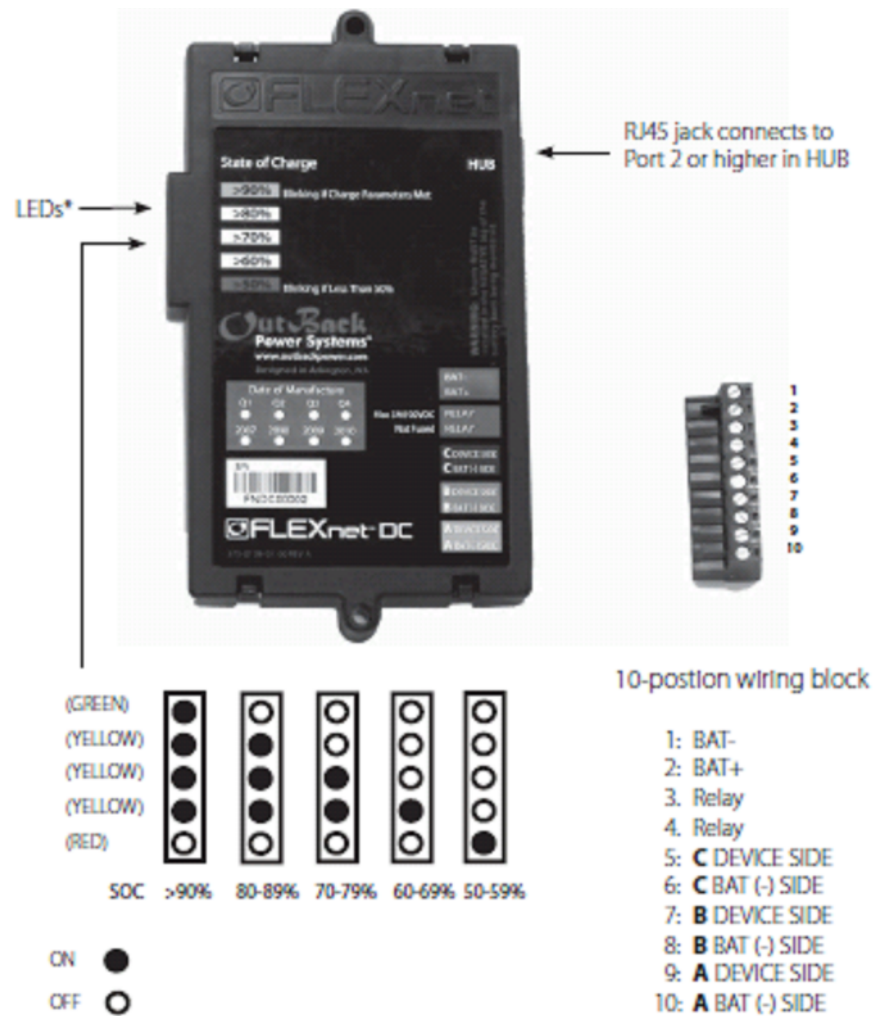
« »

/

,

/

FLEXnet DC

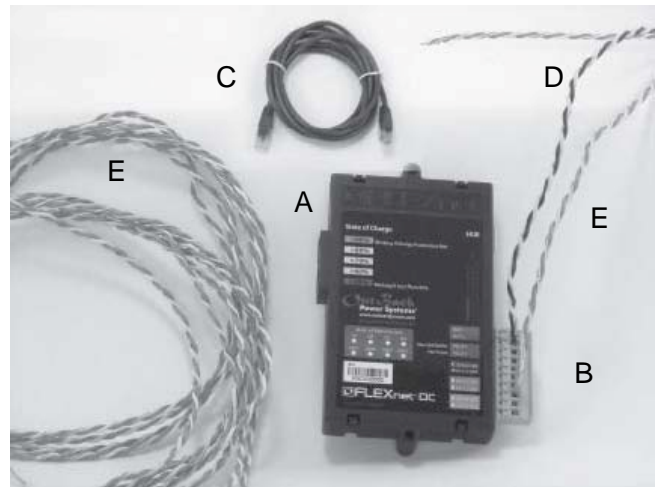


- (green) :
- :
- (SOC) 90%.
- (red) :
49% 60%.
- :
59%.
- :
50%.

* . 12

FLEXnet DC :

- A. FLEXnet DC
- B. ,
- C. «CAT5»
- D. «HUB».
- E. (TP).
- F. (
- G.)

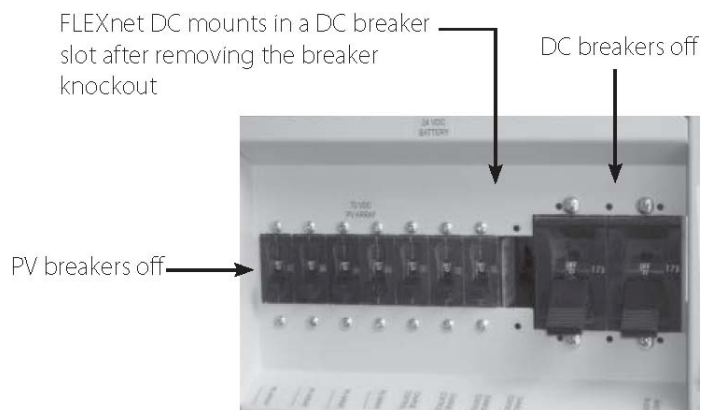


FLEXnet DC

FLEXnet DC ($\frac{3}{4}$)

OutBack DC.

1. .
2. .
3. (DC) (PV) .
4. .
5. , .
6. .

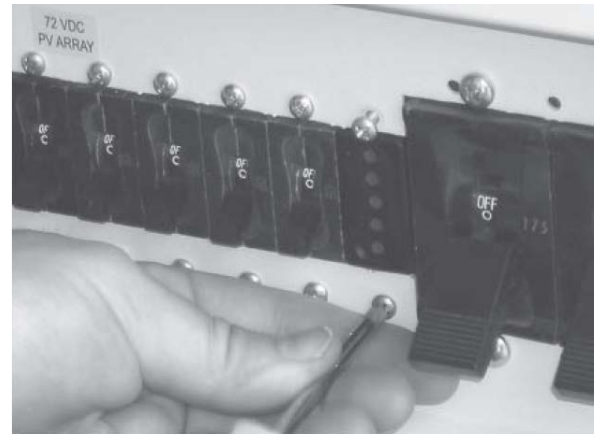


- DC

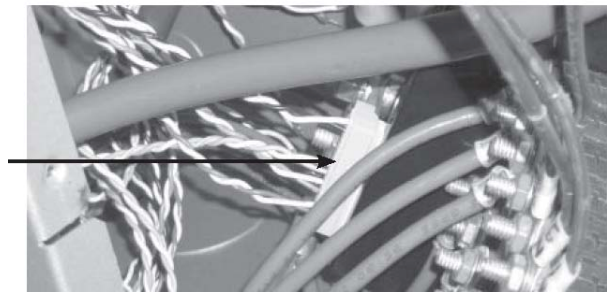
FLEXnet

-

32 X 3/8.
3-8



-

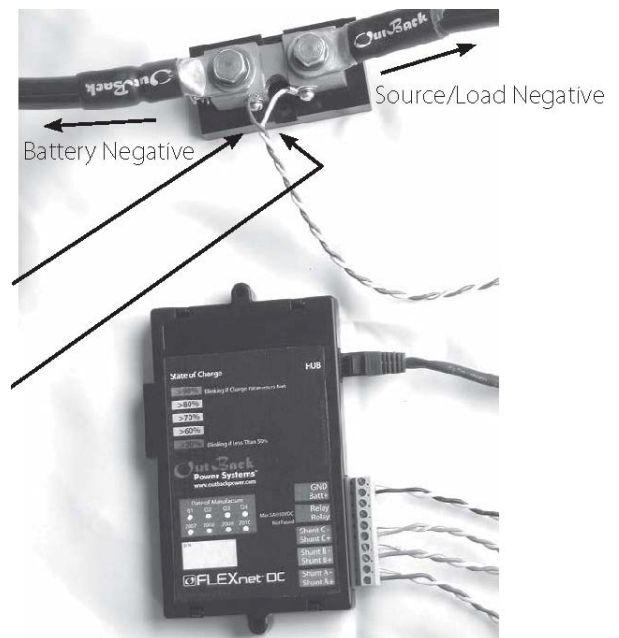


-

- :

-

- о/зеленый



(:)

черного белого ,

- белый повод (-)
- Черный (+)
- черный

5 100



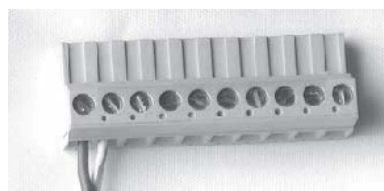
!!!! :
 , как как FLEXnet., так и остал но о
 о ор довани вкл еннo о в систем , то не вл етс арантийным сл аем

18 AWG

FLEXnet DC.

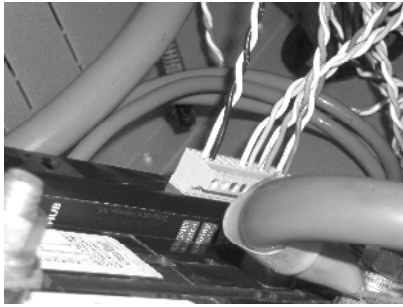
- /
 - /
 - /
 - елый ←
- 3
1

10-
5/16

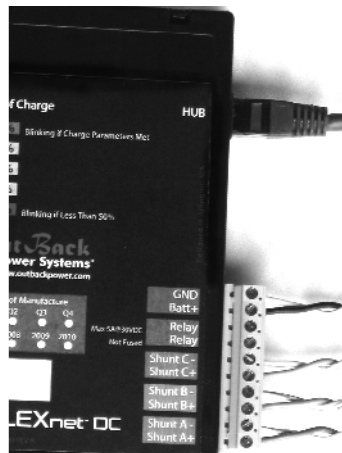


12 AWG 26 AWG (2.5 mm2 .20 mm2).

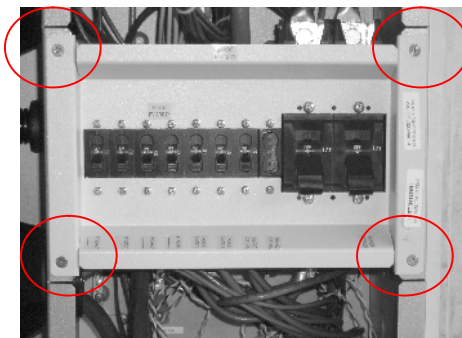
- 5
- 18 AWG , 4-5



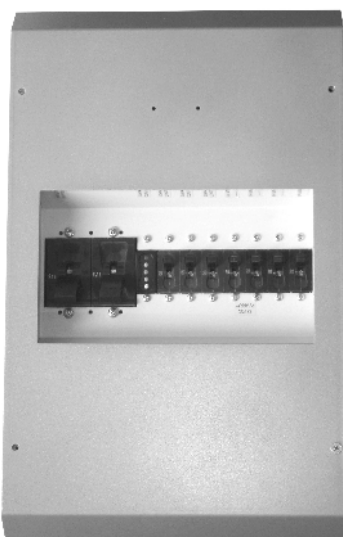
- () FLEXnet DC,
- 10- FLEXnet DC.



- CAT5 RJ45 FLEXnet DC. (HUB) 2



- DC FLEXnet

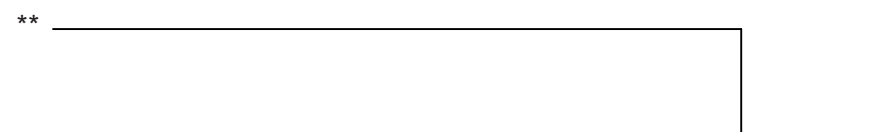


- FLEXnet DC,
-

FLEXnet DC

FLEXnet DC

:



(/)

• ,

/ ***

/ ***

()

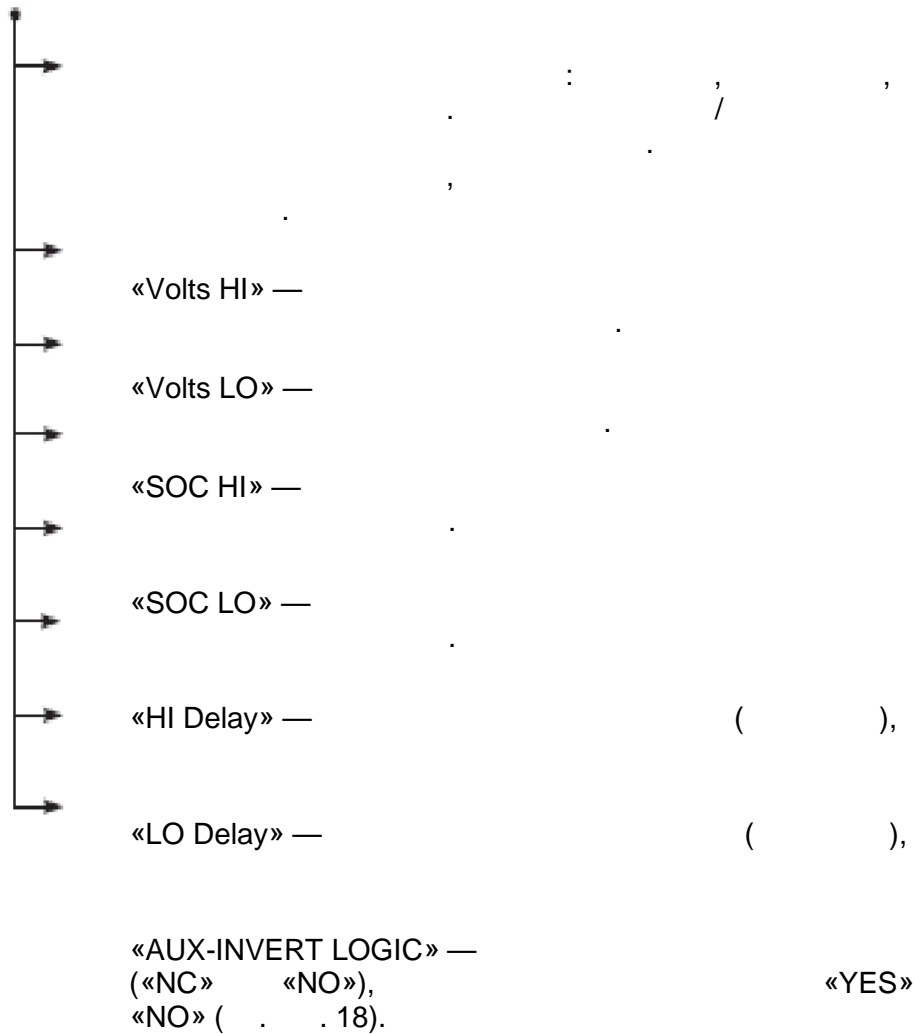
* : 0 80 . $\pm 0,1$.

$$^{**} 2000 \pm 0,1 \ (\pm 1000 \quad , \quad / \quad)$$

■

,

- «BCF» 65 100% [. . 29]
- 0 10,000 /
- A, B, C ,
- (), 0 80.0 .
- 0 500.0 A
- «Parameters met» (0-240 ,)
- (AUX)



«MATE»

FLEXnet DC.

- «MATE» (.17-28),
:
- 20-100 10 000 / , (10). -) (
- ➤ : - 1000 / , 2%
20) (
- : 2%.
- 0,2 . : - (),
12/24 . 0,4 . ,
48 .
- (BCF)
➤ «BCF» ,
(SOC), 65% 100% (. 28). «BCF»
➤ (SOC), «BCF»,
, «SOC» ,
➤ «BCF» 94%, , 94%
6%.
FLEXnet DC, «BCF»,
/
- «BCF» 100%, «BCF»,
.
- «Parameters met».
- ,
- 0 240 .
- .
- 1- .
- , ,

FLEXnet DC

- « », .
 - , .
 - .
 - .
 - ().
- FLEXnet, ,
- : , «BAT (-) SIDE». FLEXnet DC
- FLEXnet DC , ().
1. : ("parameters met" ,).
2. , , .
3. , .
- « / » « / ».
- FLEXnet DC (/), (/), , :
- « / », 100%.
 - « / » «BCF».
 - «BCF», 94% (, 0,94 « / », 0,06 « / » , .).

1. (AUTO), (SOC),
2. (MANUAL), (MATE), «AGS»,

1. (Vbat Hi) (0 99.9%)
2. (Vbat Lo) (0 99.9%)
3. (SOC Hi) (0-100%)
4. (SOC Lo) (0-100%)
5. 240) (0
6. 240) (0

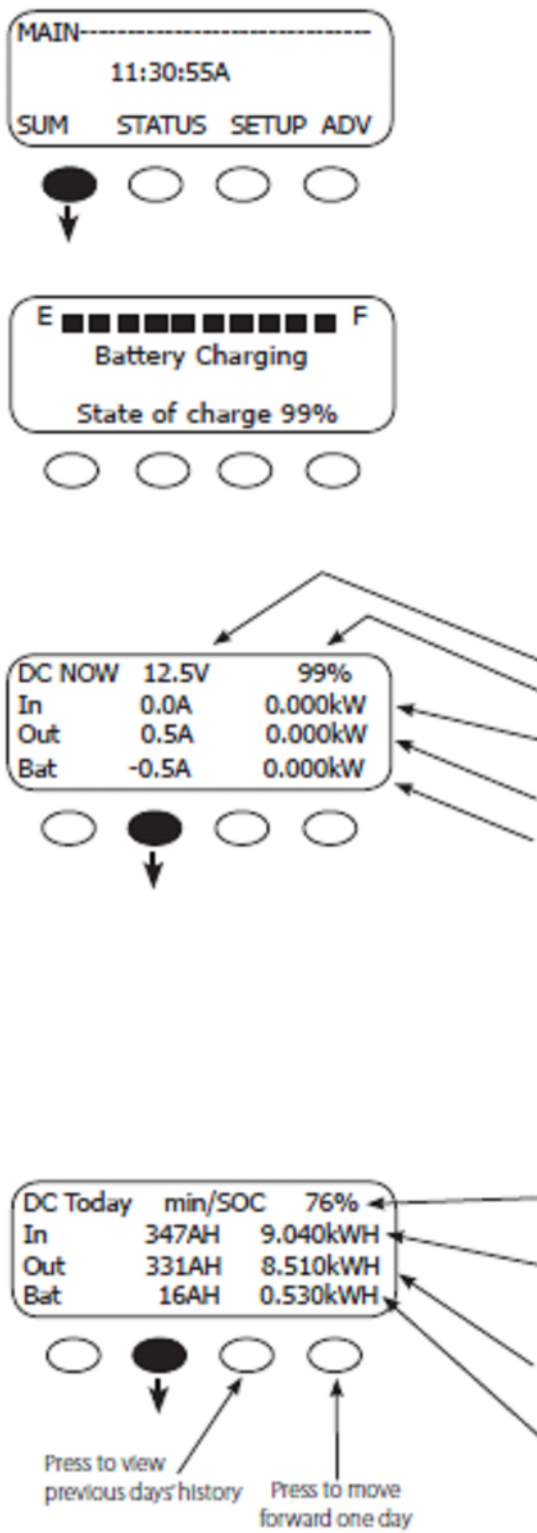
- «SOC»
- SOC
- «SOC»
-
- 26-28.

- (N), (N), (on)
(off).

- «MATE»
-

NO (Yes)		
NC (No)		

«MATE».



«SUM» («MATE»).

charge). (State of

• (SOC).

• «In», ,

• «Out», ,

• «Bat», (In)

(Out).

• (

• ()

• «In», (/ /),

• «Out», (/ /),

• «Bat», (In)

(Out).

FX Total	12.6V	99%
Inverting		0.000kW
AC Loads		0.000kW
Buying	\$	0.000kW



DC BAT	12.5V	99%
Bat	-0.6A	0.000kW
Net	-4AH	00.7kWH
Days Since Full		4.8



«SUM» , «MATE»
«FLEXnet DC».

The fourth *SUM* screen shows the following.

-
-
-
-
- When comparing the amp-hours reading to "FULL," the figure is charge factor compensated.
-
-
-

MAIN	11:30:55A		
SUM	STATUS	SETUP	ADV



STATUS			
choose device:			
FX	CC	DC	MAIN



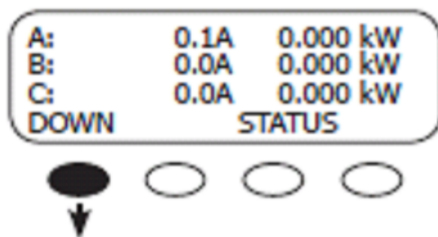
STATUS/DC/PAGE1 -----			
STATS			
METER	SHUNT	BATT	TOP



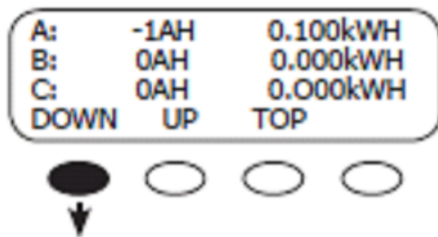
Press the **<STATUS>** soft key to open the *STATUS* screen to view the status of either the *FX*, *Charge Controller*, or (FLEXnet) *DC* .

Press the **<DC>** soft key to view the status of the (FLEXnet) *DC* .

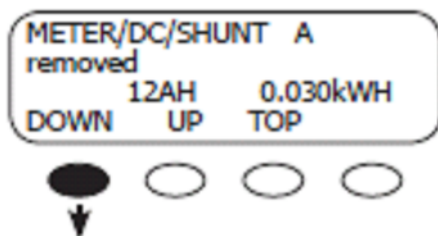
Press the **<METER>** soft key to view the (FLEXnet) *DC* meter readings.



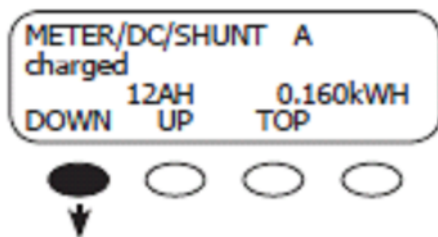
«METER»
, (, ,).
,
, (,).
<DOWN>
«METER».



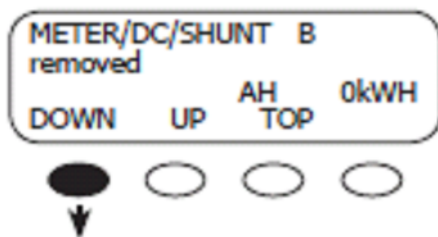
«METER»
/ / ,
. <DOWN>
«METER».



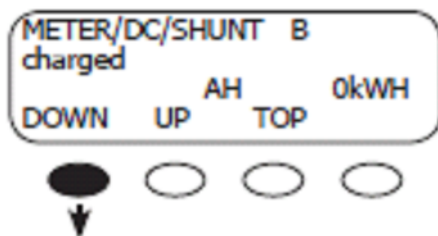
<DOWN> « » (/ / ')
« ».
« ».



<DOWN> « » (/ / ')
« ».
« ».



<DOWN> « » (/ / ')
« ».
« ».



<DOWN> « » (/ / ')
« ».
« ».

METER/DC/SHUNT C
removed
DOWN UP AH TOP 0kWH



METER/DC/SHUNT C
charged
DOWN UP AH TOP 0kWH



STATUS/FN/METER
DC firmware revision
000.00/040
DOWN UP TOP



STATUS/FN/METER
end of meter menu
UP TOP STATUS



STATUS/FN
STATS
METER SHUNT BATT TOP



STATUS/DC/SHUNT A
max removed
amps 0.9
DOWN UP RESET TOP



(/ / ')
« »
<DOWN>
« ».

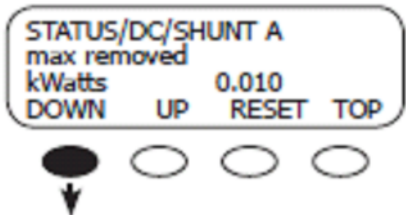
(/ / ')
« »
<DOWN>,
«METER».

<DOWN>,
«METER».

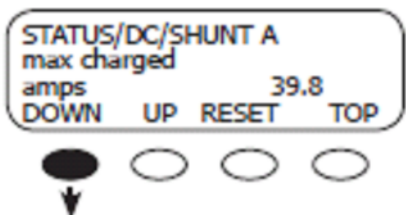
<STATUS>
«STATUS».

<SHUNT>
(,),

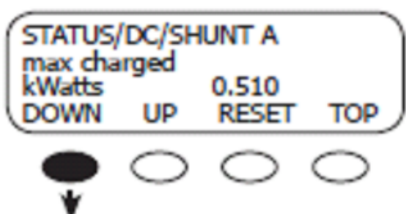
, , , « » (,) , 0,9 .
<RESET>.
<DOWN>.



(), « ». **<RESET>**.
<DOWN>.

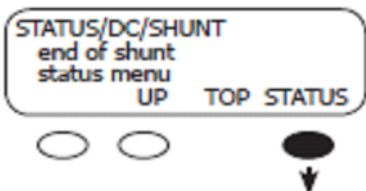


(39,8), « ». **<RESET>**.
<DOWN>.

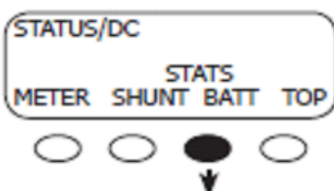


(0.510). **<RESET>**.
<DOWN>, « » « ».
 « », **<STATUS>**.

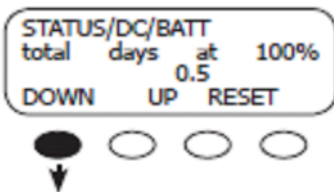
: **<DOWN>**,
 « » « ».



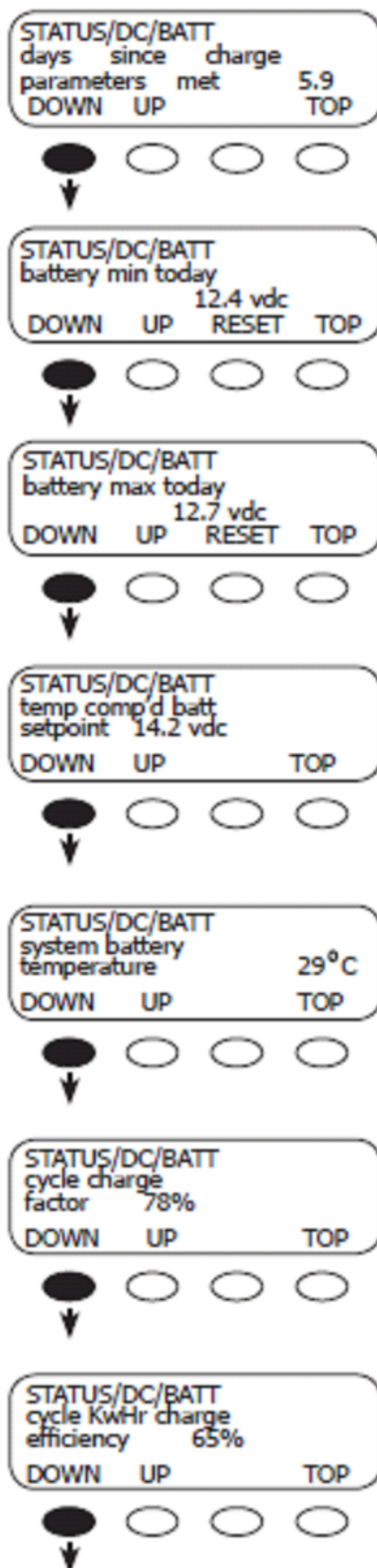
<STATUS>, **<STATUS>**.



<BATT>, **<STATUS>**.



, 100%.
<RESET>, 100%-
<DOWN>.



10°C 60°C).

<RESET>.

<RESET>.

<RESET>.

«RTS»).

«RTS».

«RTS»

« / » (###).

« / ».

« / ».

« / ».

« / ».

STATUS/DC/BATT
lifetime kAH removed 5

DOWN UP RESET TOP



STATUS/DC/BATT-----
end of battery
status menu

UP TOP STATUS



MAIN-----
11:30:55A

SUM STATUS SETUP ADV



ADV/SETTINGS/WARNING
Changes made could adversely
effect system performance



ADV/PASSWORD
enter the password
132

ENTER INC DEC EXIT



ADV/PASSWORD
enter the password
141

ENTER INC DEC EXIT



ADV-----
choose device:

FX CC DC MATE



(/)

« »

<DOWN>.

<ADV>.

«OutBack».

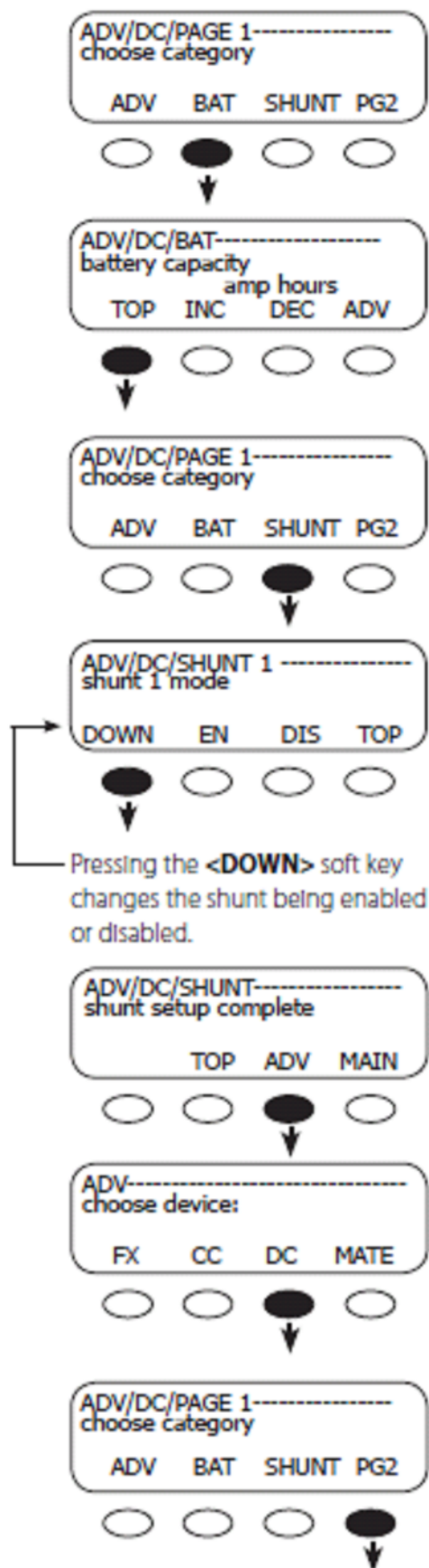
<INC>

«141». (

.)

<ENTER>.

<DC>.



<BAT>.

<DEC>

<INC>

(/).
<TOP>.

<SHUNT>.

1,

/ 2- 3-

<DOWN>.

<EN> .

<DIS>.
<DOWN>.

<ADV>.

<DC>.

<PG2>.

ADV/DC/PAGE 2-----
choose category

PG1 CHARGE AUX PG3

☐ ☒ ☐ ☐

↓

<CHARGE>.

ADV/DC/CHARGE-----
return amps

DOWN INC DEC TOP

☒ ☐ ☐ ☐

↓

<DEC>

<INC>

ADV/DC/CHARGE-----
battery charge

DOWN INC DEC TOP

☒ ☐ ☐ ☐

↓

<DEC>

<INC>

ADV/DC/CHARGE-----
parameters met time
minutes

DOWN INC DEC TOP

☒ ☐ ☐ ☐

↓

<DOWN>.

<DOWN>.

<INC> <DEC>
«Parameters met»,

«Parameters met»,

ADV/DC/CHARGE-----
charge factor %

DOWN INC DEC TOP

☒ ☐ ☐ ☐

↓

<INC> <DEC>
«BCF»
(. . 13).
<DOWN>.

ADV/DC/CHARGE-----
charge parameters
complete

TOP ADV MAIN

☐ ☐ ☒ ☐

↓

<ADV>.

ADV-----
choose device:

FX CC DC MATE

☐ ☐ ☒ ☐

↓

<DC>.

ADV/DC/PAGE 1-----
choose category

ADV BAT SHUNT PG2

☐ ☐ ☐ ☒



ADV/DC/PAGE 2-----
choose category:

PG1 CHARGE AUX PG3

☐ ☐ ☒ ☐



ADV/DC/AUX CONTROL-----
currently: Auto On

DOWN OFF AUTO ON

☒ ☐ ☐ ☐



ADV/DC/AUX HIGH VOLT-----
high volts vdc

DOWN INC DEC TOP

☒ ☐ ☐ ☐



ADV/DC/AUX LOW VOLT-----
low volts vdc

DOWN INC DEC TOP

☒ ☐ ☐ ☐



ADV/DC/AUX SOC HIGH-----
SOC high %

DOWN INC DEC TOP

☒ ☐ ☐ ☐



<PG2>.

<AUX>.

<OFF> <ON>
(AUX):
«OFF» (NO,), «ON» (NC,
) «AUTO».

, <INC> <DEC>.,

, <INC> <DEC>.,

, <INC> <DEC>.,

ADV/DC/AUX SOC LOW-----
SOC low %

DOWN INC DEC TOP



ADV/DC/AUX/HI DELAY HIGH-----
high setpoint delay
minutes

DOWN INC DEC TOP



ADV/DC/AUX/LO DELAY HIGH-----
low setpoint delay
minutes

DOWN INC DEC TOP



ADV/DC/AUX/INVERT-----
invert logic

DOWN YES NO TOP



ADV/DC/AUX-----
aux parameters
complete

TOP ADV MAIN



ADV-----
choose device:

FX CC DC MATE



ADV/DC/PAGE 1-----
choose category

ADV BAT SHUNT PG2



<INC> <DEC> ,

<INC> <DEC> ,

<INC> <DEC> ,

<YES> ,

<NO> ,

<ADV>.

<DC>.

<PG2>.

ADV/DC/PAGE 2-----
choose category:

PG1 CHARGE AUX PG3



<PG3>.

ADV/DC/AUX/PAGE 3-----
choose category:

PG2 RESET CLR MAIN



FLEXnet DC

<RESET>.

<CLR>.

«BCF»

FLEXnet DC

«BCF»,

94%,

100 /

FLEXnet DC

94 / , 6 /

«BCF»,
(SOC),

100%-

«BCF»,

«BCF»,

(,

).