

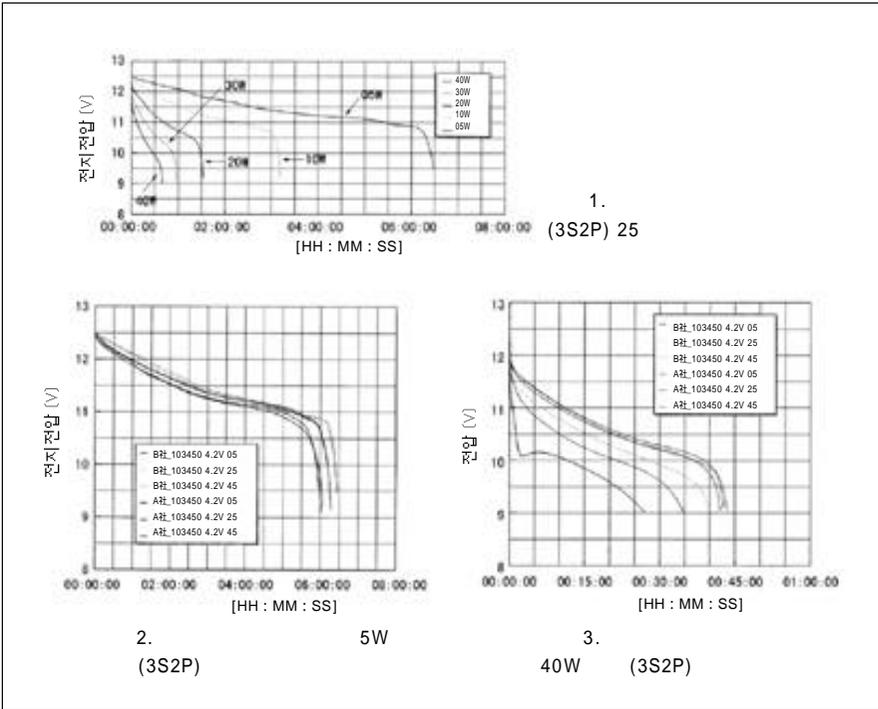
2

富士通(株) 2
小澤 秀清() 2 가 . 2

2

2

가



가

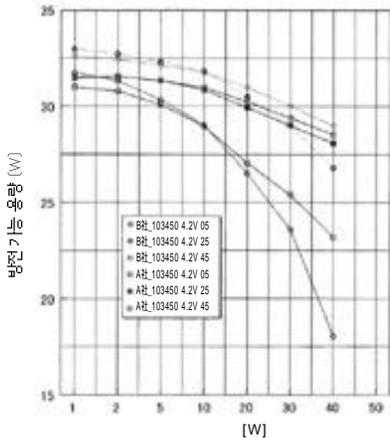
가

가

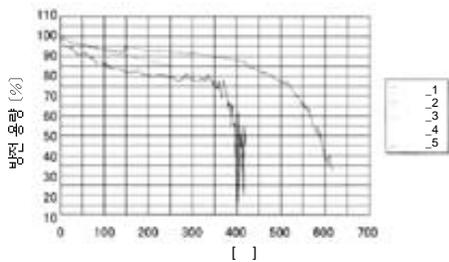
가

1 4

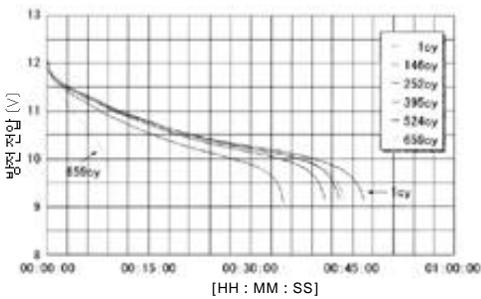
2



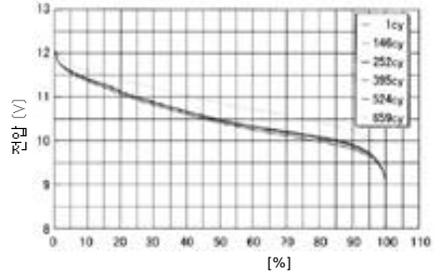
4. (3S2P)



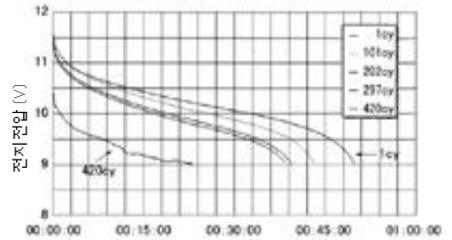
5. 1P3S [] (: CVCC 12.6V/1.35A : 19.14W 9.0V)



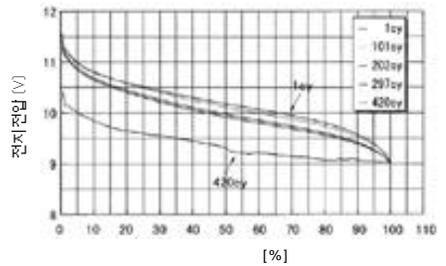
6. 1 [] (: CVCC 12.6V/1.35A : 19.14W 9.0V)



7. 1 [] () (: CVCC 12.6V/1.35A : 19.14W 9.0V)



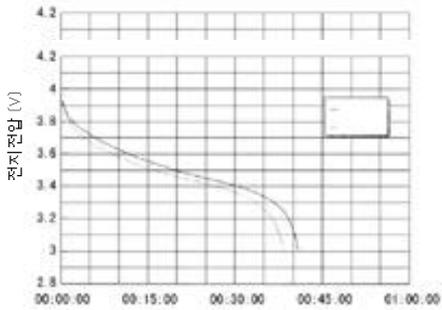
8. 2 [] (: CVCC 12.6V/1.35A : 30.00W 9.0V)



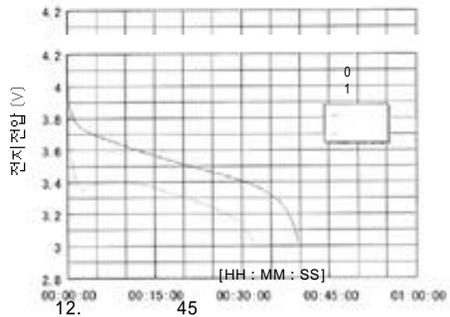
9. 2 [] () (: CVCC 12.6V/1.35A : 30.00W 9.0V)

1
2 (40W, 30W, 20W, 10W, 5W) 4.2V(1
2 3
12.6V)

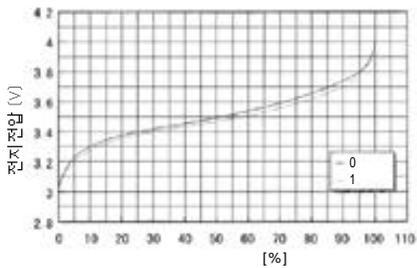
3.0V(3 . 5 2
 9.0V)
 2 3 (5W, 40W) 2
 2
 . 5W 가 . 2
 , 40W 가 . 6 9
 (5) 가 가 6
 4 . 2 , 6
 7
 60%



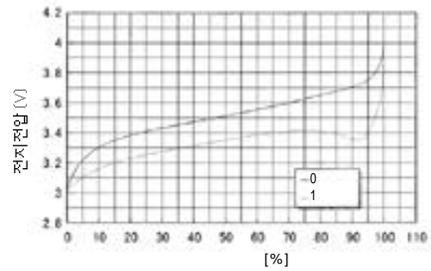
11. 45 1 ()



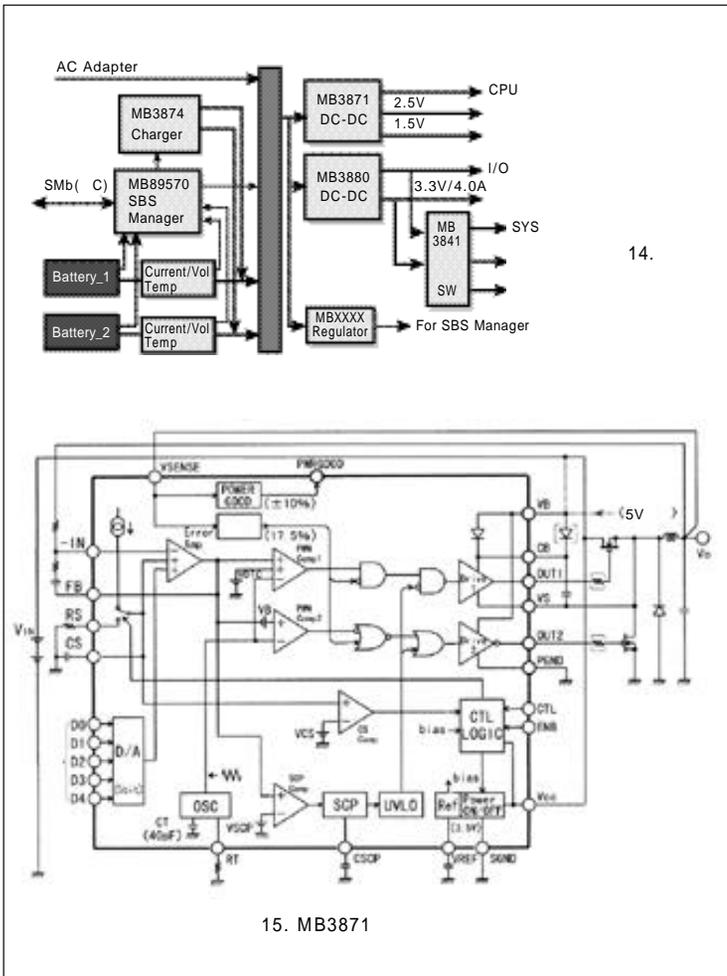
12. 45 2



13. 45 1 2 ()



13. 45 1 2 ()



15. MB3871

10 13
 10
 45 10 1
 6
 11 10
 14.
 12
 45 1
 10
 12
 가
 12
 가 13

8 9
 가 10 가2
 6
 8
 가
 가 가 가) 14
 8 가

MB3871

I/O

CPU

14
LSI

DC
DC

DC -
DC -

CPU

MB3871

DC - DC

MB3871
가 4

100K

16
1.3V 2.0V

3.

50mV 100mV

3V
DVD
CPU

I/O 5.0V

K

MB3871

6V가

1.
1.1V

DC - DC

mA mA

10 30m

DC - DC

MB3871

, DC - DC

가

DC - DC
가 가

50%

50%가
가

DC - DC 가

, 90 95%

Pentium DC - DC

DC

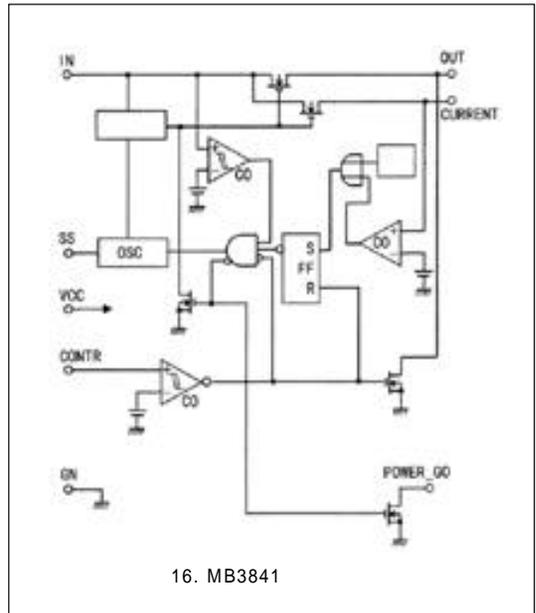
DC -

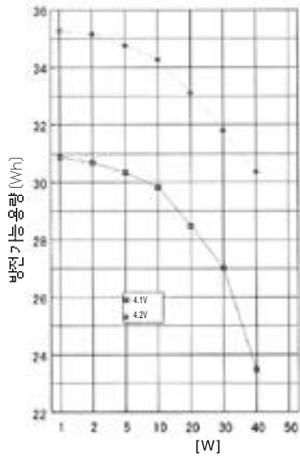
mA

MB3871

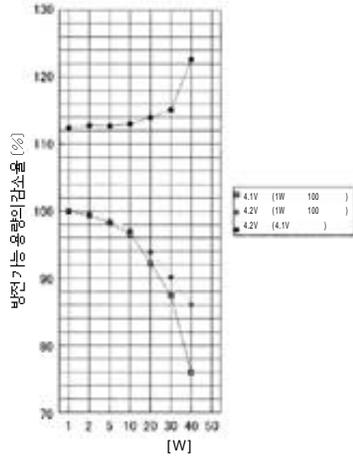
MB3871

15

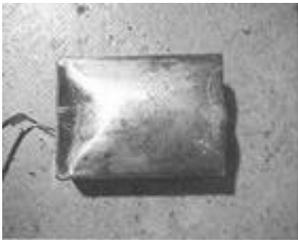




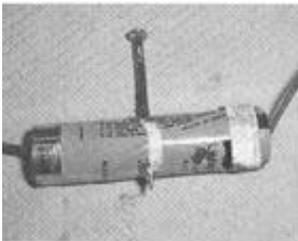
17. 18650×6 (3S2P :)



18. 18650×6 (3S2P :)



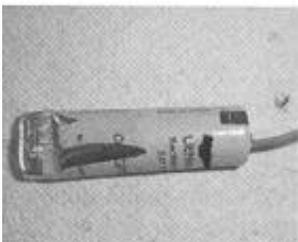
1. 18.0V/3.0A



2. 4.25V ()



3. 4.30V ()



4. 4.25V ()



5. 4.30V ()

DC - DC

DC - DC

DC - DC

3 5%

DC

가

DC -

가

가

MB3871

가

5%

MB3871

4

DC - DC

가

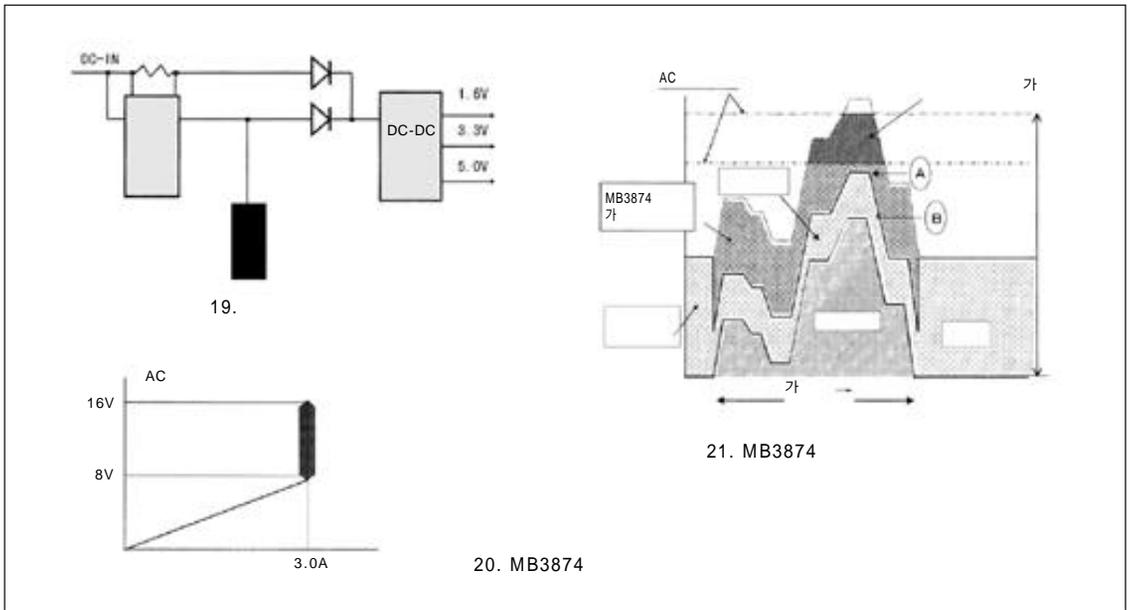
가

가
가

가

가

DC MB3871 DC - HDD가 MOS Tr
 CPU가 HDD가 NMOS Tr GND
 가 DMOS Tr
 가 off
 FET on
 REVERSE BLOCK
 DC - DC DC - DC REVERSE BLOCK
 PWM 가 DC - DC 가
 DC - DC MB3871 on
 가 on/off
 on
 on MB3841 NMOS Tr
 (current)
 DC - DC PENTIUM MB3841 CURRENT
 LSI MB3884 MB3802 1993 , MB3802 , MB3841
 5 IC가 MB3802 1/3 1/4
 MB3841 MB3802
 120m
 16 MB3841 FET on 60m ,
 가 MB3841 DC - DC (60m IC
) , DC - 27m ,
 DC FET 가 3m
 ON MB3841
 2.1V
 가 (HDD) DC - DC on N 0m



가

가 (

1mm 가) 가

IC 가

0m , FET 가 V 가

on 가 30m t가 T/ 1 1,400mA

AC 18.0V/30A

가

2

2

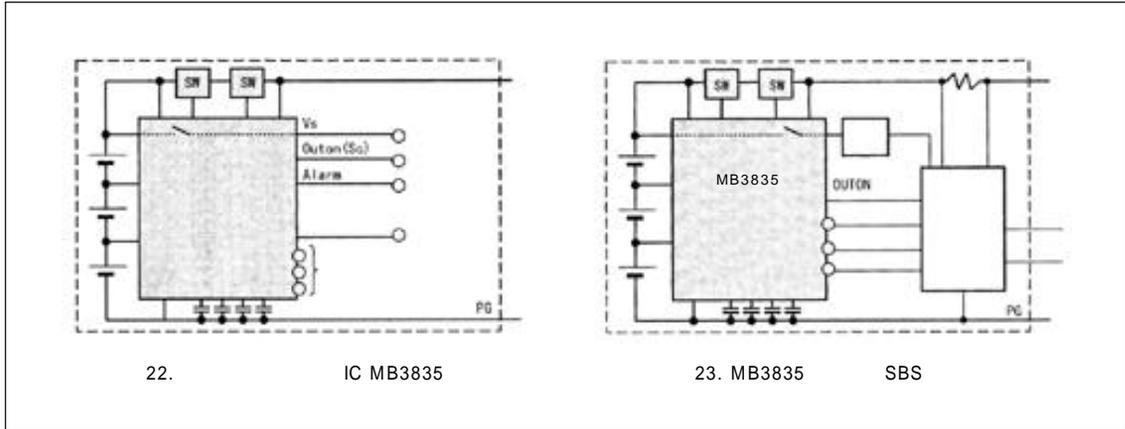
가 2 50mV

가 17, 18 가 가 4,

가 5 (壓壞)

가 4.25V

. ±20 30% 가 . 2
 LSI
 4.2V±50mV(±1.1%)
 DC - DC m LSI 0.1μ 가 . 가
 2 2
 ±5%
 ±1.1% 가
 (1) 가
 가 가 , 가 가
 가 가 . 2 가 가
 ±0.5% . 1 2 2
 LSI ±1.1% 가 가
 4
 2
 10%가 가 AC
 . 2.7 2
 가
 LSIMB3814 (2)
 R1 R2 LSI AC
 LSI 가 MB3814 . 2
 가 MB3814 DC - . 2
 LSI DC LSI AC
 가 가 가



가

가

, AC

AC

가

AC

AC

가

가

가

가

가

AC

가

AC

AC

AC

가

AC

가

가

. MB3874

. SBS(Smart Battery System)

IC

. MB3874

AC

AC

가

가

가

(單體)

20

AC

가

가

21

IC

MB3835가

. MB3835

22

MB3835

AC

가

가

ALARM

. ALARM

9

가

IC

MB3814

ON/OFF

IC

(單

(3)

體)

ON/OFF

가 . 100PA .

IC

MB3835

LSI 2

IC

가

1 μA 0.5 μ , MB3835

MB3815

SBS

MB3835

SBS

100PA

IC 1/5,000 ,

IC

23



1

2

, MB3835

5,000

IC



게재된 기사는 본지의 웹사이트를 통해서도 보실 수 있습니다.

<http://www.chomdan.co.kr>



가

가가

