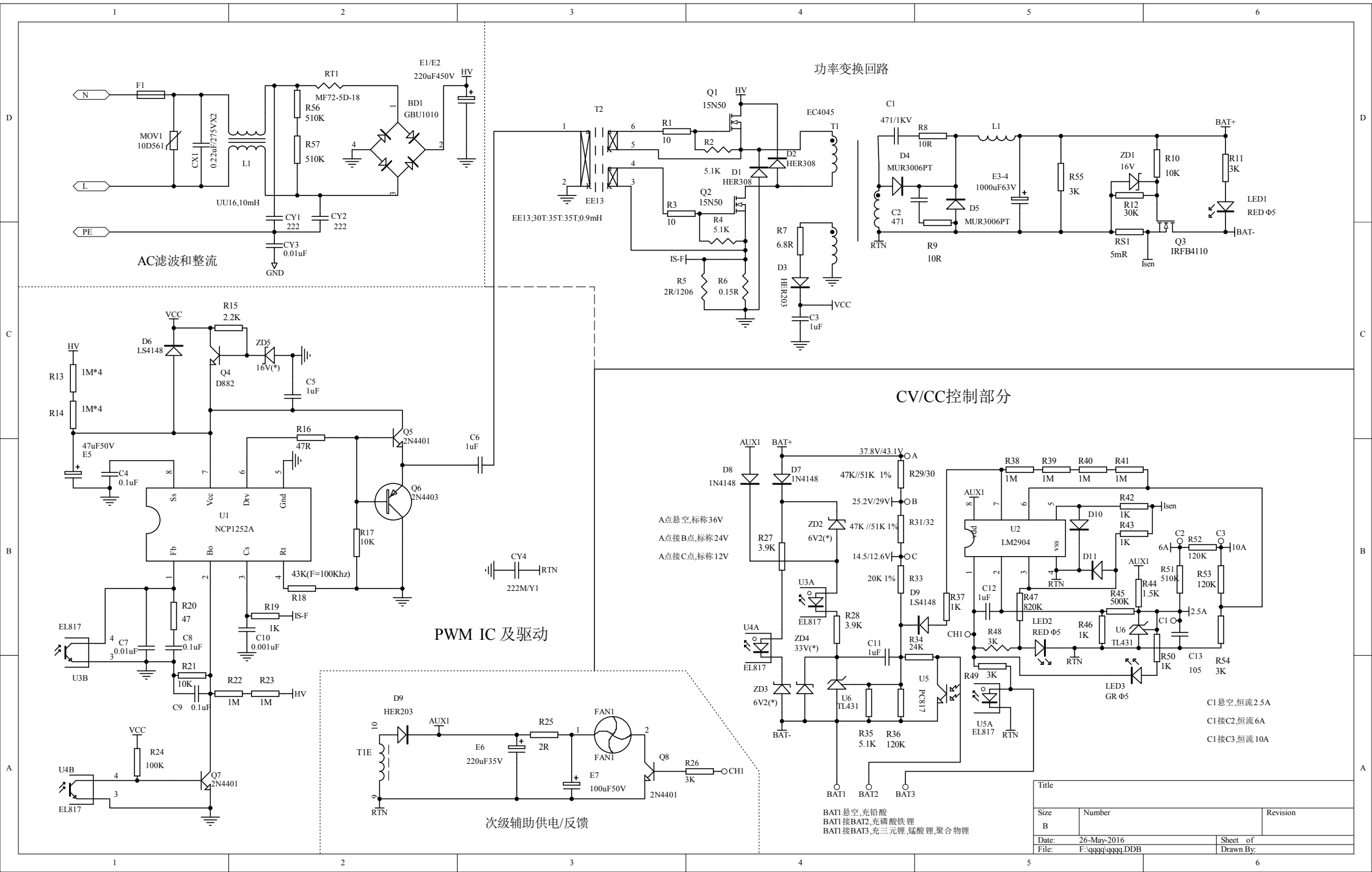
AC滤波和整流
功率变换回路
PWM IC 及驱动
CV/CC控制部分
次级辅助供电/反馈
N
L
PE
F1
MOV1
10D561
CX1
0.22uF/275VX2
L1
UU16,10mH
RT1
MF72-5D-18
R56
510K
R57
510K
BD1
GBU1010
E1/E2
220uF450V
HV
CY1
222
CY2
222
CY3
0.01uF
GND
T2
EE13
EE13;30T:35T:35T;0.9mH
Q1
15N50
Q2
15N50
EC4045
T1
R1
10
R2
5.1K
R3
10
R4
5.1K
D1
HER308
D2
HER308
IS-F
R5
2R/1206
R6
0.15R
R7
6.8R
D3
HER203
VCC
C3
1uF
C1
471/1KV
R8
10R
L1
D4
MUR3006PT
E3-4
1000uF63V
R55
3K
ZD1
16V
R10
10K
R11
3K
LED1
RED Φ5
BAT+
BAT-
C2
471
D5
MUR3006PT
R9
10R
RTN
R12
30K
RS1
5mR
Isen
Q3
IRFB4110
R15
2.2K
D6
LS4148
ZD5
16V(*)
Q4
D882
C5
1uF
R13
1M*4
R14
1M*4
47uF50V
E5
C4
0.1uF
R16
47R
Q5
2N4401
C6
1uF
Q6
2N4403
U1
NCP1252A
Ss
Vcc
Drv
Gnd
Fb
Bo
Cs
Rt
R17
10K
43K(F=100Khz)
R18
CY4
222M/Y1
R19
1K
C10
0.001uF
IS-F
R20
47
C7
0.01uF
C8
0.1uF
EL817
U3B
R21
10K
C9
0.1uF
R22
1M
R23
1M
HV
U4B
R24
100K
Q7
2N4401
EL817
D9
HER203
T1E
AUX1
E6
220uF35V
R25
2R
FAN1
E7
100uF50V
Q8
2N4401
R26
3K
CH1
RTN
AUX1
BAT+
D8
1N4148
D7
1N4148
37.8V/43.1V
A
R29/30
47K//51K 1%
25.2V/29V
B
R31/32
47K //51K 1%
14.5/12.6V
C
R33
20K 1%
R27
3.9K
ZD2
6V2(*)
U3A
EL817
R28
3.9K
U4A
EL817
ZD4
33V(*)
C11
1uF
R34
24K
D9
LS4148
ZD3
6V2(*)
U6
TL431
U5
PC817
R35
5.1K
R36
120K
BAT-
BAT1
BAT2
BAT3
A点悬空,标称36V
A点接B点,标称24V
A点接C点,标称12V
BAT1 悬空,充铅酸
BAT1 接BAT2,充磷酸铁锂
BAT1 接BAT3,充三元锂,锰酸锂,聚合物锂
R37
1K
CH1
R38
1M
R39
1M
R40
1M
R41
1M
U2
LM2904
Vdd
Vss
R42
1K
Isen
D10
R43
1K
D11
C12
1uF
R47
820K
R45
500K
R44
1.5K
U6
TL431
R46
1K
LED2
RED Φ5
R48
3K
R49
3K
U5A
EL817
LED3
GR Φ5
C2
6A
R52
120K
C3
10A
R51
510K
R53
120K
C1
2.5A
R50
1K
C13
105
R54
3K
C1悬空,恒流2.5A
C1接C2,恒流6A
C1接C3,恒流10A
Title
Size
B
Number
Revision
Date:
26-May-2016
Sheet of
File:
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Drawn By: