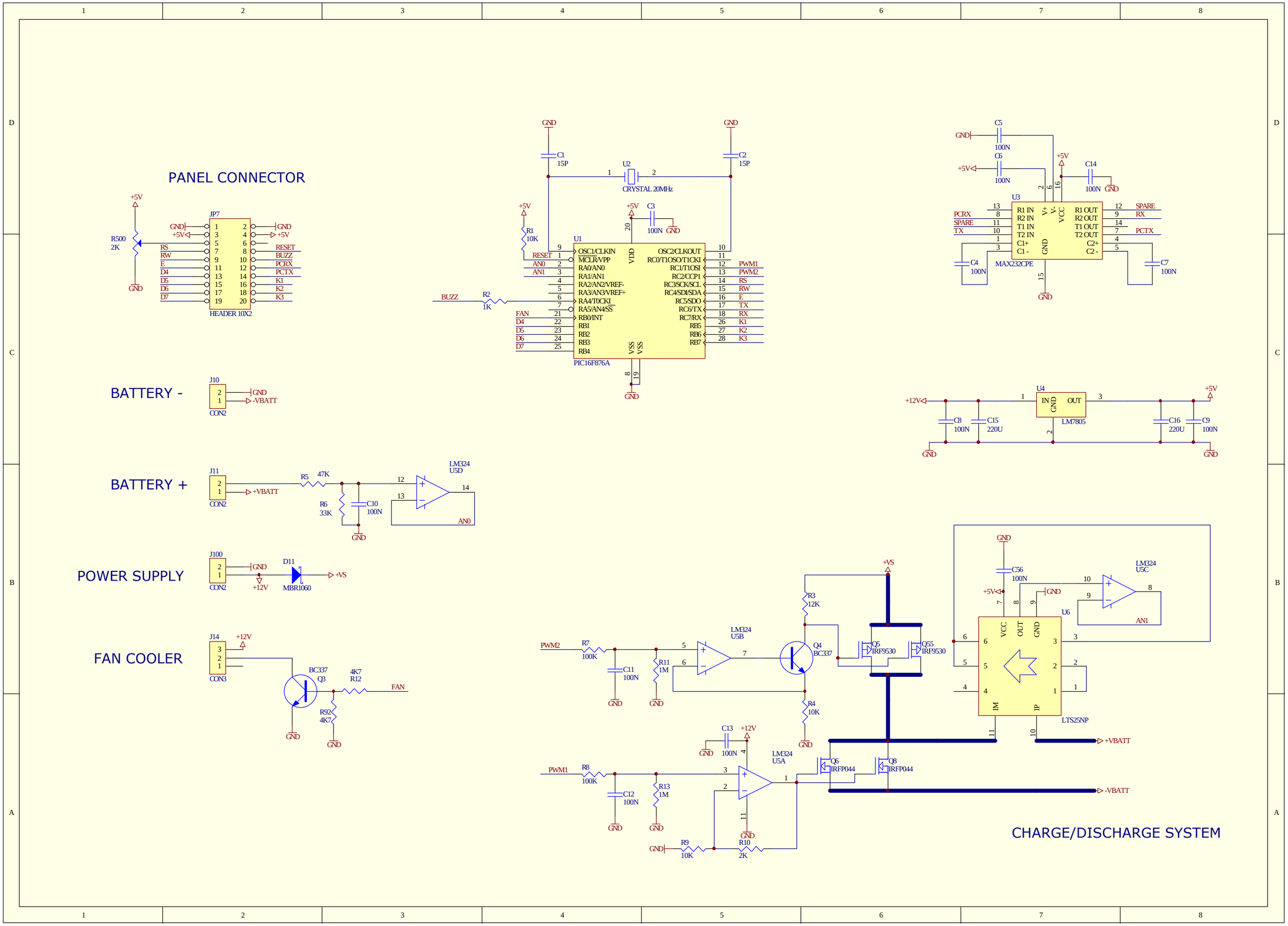
PANEL CONNECTOR
JP7
HEADER 10X2
R500
2K
RS
RW
E
D4
D5
D6
D7
RESET
BUZZ
PCRX
PCTX
K1
K2
K3
BATTERY -
J10
CON2
-VBATT
BATTERY +
J11
+VBATT
R5
47K
R6
33K
C10
100N
LM324
U5D
AN0
POWER SUPPLY
J100
D11
MBR1060
+VS
+12V
FAN COOLER
J14
CON3
BC337
Q3
4K7
R12
R92
4K7
FAN
U1
PIC16F876A
OSC1/CLKIN
MCLR/VPP
RA0/AN0
RA1/AN1
RA2/AN2/VREF-
RA3/AN3/VREF+
RA4/T0CKI
RA5/AN4/SS
RB0/INT
RB1
RB2
RB3
RB4
OSC2/CLKOUT
RC0/T1OSO/T1CKI
RC1/T1OSI
RC2/CCP1
RC3/SCK/SCL
RC4/SDI/SDA
RC5/SDO
RC6/TX
RC7/RX
RB5
RB6
RB7
VDD
VSS
PWM1
PWM2
R1
10K
R2
1K
C1
15P
C2
15P
U2
CRYSTAL 20MHz
C3
100N
C5
100N
C6
100N
C14
100N
U3
MAX232CPE
R1 IN
R2 IN
T1 IN
T2 IN
C1+
C1 -
R1 OUT
R2 OUT
T1 OUT
T2 OUT
C2+
C2 -
V+
V-
VCC
GND
C4
100N
C7
100N
SPARE
RX
PCTX
U4
LM7805
IN
OUT
C8
100N
C15
220U
C16
220U
C9
100N
R7
100K
C11
100N
R11
1M
LM324
U5B
R3
12K
Q4
BC337
R4
10K
Q5
IRF9530
Q55
IRF9530
C56
100N
LM324
U5C
AN1
U6
LTS25NP
IM
IP
C13
100N
LM324
U5A
R8
100K
C12
100N
R13
1M
Q6
IRFP044
Q8
IRFP044
R9
10K
R10
2K
CHARGE/DISCHARGE SYSTEM