U1
LM2576-12
+24.0V
Vin
GND
ON/OFF
FB
OUTPUT
C1
100u
L1 3A
100u
D1
1N5822
C2
1000u
+12.0V
R1
330
D2
LED-GREEN
C3
100n
U2
LM7805ACT
VI
GND
VO
+5.0V
R2
330
C4 16V
1000u
C5
100n
D3
LED-GREEN
PIC A VDD
C6
10u
PIC A VSS
PIC A VDD
C7
100n
PIC A VSS
PIC B VDD
C8
10u
PIC B VSS
PIC B VDD
C9
100n
PIC B VSS
X1
CRYSTAL
FREQ=8MHz
C10
22p
C11
22p
X2
CRYSTAL
FREQ=4MHz
C12
27p
C13
27p
U3
U4
U5
U6
VOUT
LM35
MOSFET A TEMPERATURE
MOSFET B TEMPERATURE
MOSFET C TEMPERATURE
MOSFET D TEMPERATURE
U7
PIC16F46K22 E/P
FEEDBACK
OVERLOAD DETECT
MOSFET A TEMPERATURE
MOSFET B TEMPERATURE
GLCD SCROLL
XTALA2
XTALA1
D7
D6
D5
D4
D3
D2
D1
D0
RA0/C12IN0-/AN0
RA1/C12IN1-/AN1
RA2/C2IN+/AN2/DACOUT/VREF-
RA3/C1IN+/AN3/VREF+
RA4/C1OUT/SRQ/T0CKI
RA5/C2OUT/SRNQ/SS1/HLVDIN/AN4
RA6/CLKO/OSC2
RA7/CLKI/OSC1
RB0/INT0/FLT0/SRI/AN12
RB1/INT1/C12IN3-/AN10
RB2/INT2/CTED1/AN8
RB3/CTED2/P2A/CCP2/C12IN2-/AN9
RB4/IOC0/T5G/AN11
RB5/IOC1/P3A/CCP3/T3CKI/T1G/AN13
RB6/IOC2/PGC
RB7/IOC3/PGD
RC0/P2B/T3CKI/T3G/T1CKI/SOSCO
RC1/P2A/CCP2/SOSCI
RC2/CTPLS/P1A/CCP1/T5CKI/AN14
RC3/SCK1/SCL1/AN15
RC4/SDI1/SDA1/AN16
RC5/SDO1/AN17
RC6/TX1/CK1/AN18
RC7/RX1/DT1/AN19
RD0/SCK2/SCL2/AN20
RD1/CCP4/SDI2/SDA2/AN21
RD2/P2B/AN22
RD3/P2C/SS2/AN23
RD4/P2D/SDO2/AN24
RD5/P1B/AN25
RD6/P1C/TX2/CK2/AN26
RD7/P1D/RX2/DT2/AN27
RE0/P3A/CCP3/AN5
RE1/P3B/AN6
RE2/CCP5/AN7
MCLR/VPP/RE3
CS1
CS2
P1A
RST
P1C
P1D
FAN
R3
10k
U8
PIC12F1840 E/P
RA0/AN0/C1IN+/VREF-/DACOUT/TX/CK/SDO/P1B/MDOUT
RA1/AN1/C12IN0-/VREF+/SRI/RX/DT/SCL/SCK/MDMIN
RA2/AN2/C1OUT/SRQ/T0CKI/CCP1/P1A/SDA/SDI/INT/MDCI
RA3/SS/VPP/MCLR
RA4/AN3/OSC2/CLKOUT/T1OSO/C1IN1-/CLKR/T1G/MDCI2
RA5/CLKIN/OSC1/T1OSI/T1CKI/SRNQ
OVELOAD DETECT
PWM DC-DC CONVERTER
XTALB2
XTALB1
R36
10k
GLCD SCROLL
LCD1
AMPIRE128X64
-Vout
RST
CS2
CS1
RV1
10k
TR1
TRAN-1P2S
B4
12V
B3
12V
B2
12V
B1
12V
+24.0V
D4
DIODE-ZEN
C14 250V
150nF
D5
DIODE-SC
PWM DC-DC CONVERTER
R4
10
L4
68u
Q1
IRLU3110ZPbF
R5
10k
D6
APT40DQ60B
D7
APT40DQ60B
+325.0V
C15 400V
100u
D8
UF5406
D9
UF5406
+19.4V
C16 35V
1000u
+12.0V
D10
1N4007
FAN
R6
100
Q2:A
MCH3473
R7
10k
C17
10u
C18
100n
D11
UF4007
C19 TANTALUM 25V
68uF
+325.0V
C22 TANTALUM 25V
68uF
D18
UF4007
C20
10u
C21
100n
P1A
P1B
R8
1k
R9
1k
U9
U10
VCC
IN
SD
COM
VB
HO
VS
LO
IR2184
R22
1k
R23
1k
L2
12V
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
Q14
STE40NK90ZD
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
R34
R35
10
10k
D12
D13
D14
D15
D16
D17
D19
D20
D21
D22
D23
D24
UF4007

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