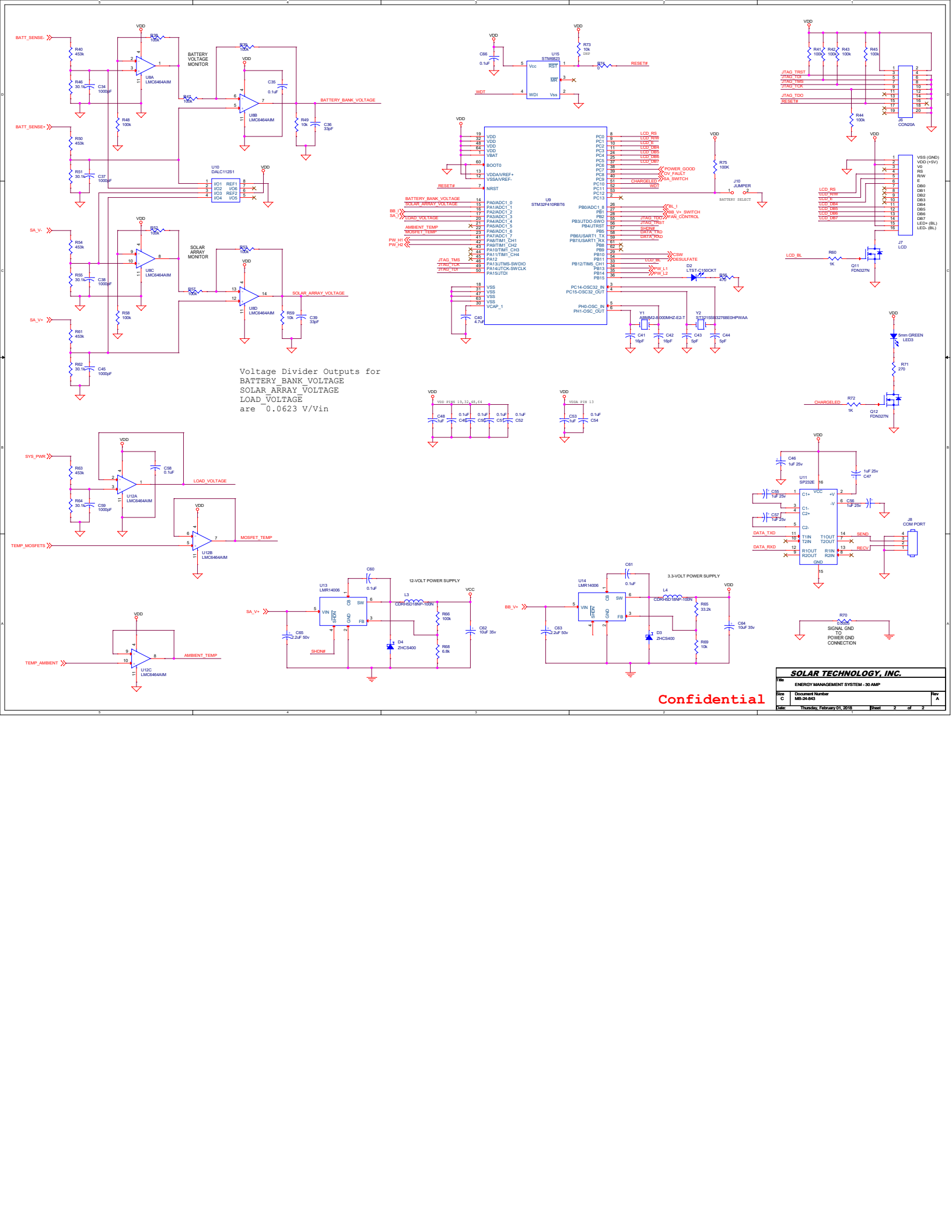
BATTERY VOLTAGE MONITOR
SOLAR ARRAY MONITOR
U9 STM32F410RBT6
U15 STM6823
U10 DALC112S1
U8A LMC6464AIM
U8B LMC6464AIM
U8C LMC6464AIM
U8D LMC6464AIM
U12A LMC6464AIM
U12B LMC6464AIM
U12C LMC6464AIM
U13 LMR14006
U14 LMR14006
U11 SP232E
J6 CON20A
J7 LCD
J8 COM PORT
J10 JUMPER
D2 LTST-C150CKT
D3 ZHCS400
D4 ZHCS400
Q11 FDN327N
Q12 FDN327N
Y1 ABMM2-8000MHZ-E2-T
Y2 ST3215SB3276BE0HPWAA
BATT_SENSE-
BATT_SENSE+
SA_V-
SA_V+
BATTERY_BANK_VOLTAGE
SOLAR_ARRAY_VOLTAGE
LOAD_VOLTAGE
MOSFET_TEMP
AMBIENT_TEMP
TEMP_MOSFETS
TEMP_AMBIENT
SYS_PWR
BB_V+
RESET#
JTAG_TRST
JTAG_TDI
JTAG_TMS
JTAG_TCK
JTAG_TDO
LCD_RS
LCD_R/W
LCD_E
LCD_DB4
LCD_DB5
LCD_DB6
LCD_DB7
LCD_BL
CHARGELED
DATA_TXD
DATA_RXD
SEND
RECV
SHDN#
12-VOLT POWER SUPPLY
3.3-VOLT POWER SUPPLY
5mm GREEN LED3
SIGNAL GND TO POWER GND CONNECTION
Voltage Divider Outputs for
BATTERY_BANK_VOLTAGE
SOLAR_ARRAY_VOLTAGE
LOAD_VOLTAGE
are 0.0623 V/Vin
Confidential
SOLAR TECHNOLOGY, INC.
Title
ENERGY MANAGEMENT SYSTEM - 30 AMP
Size C
Document Number MB-24-843
Rev A
Date: Thursday, February 01, 2018
Sheet 2 of 2