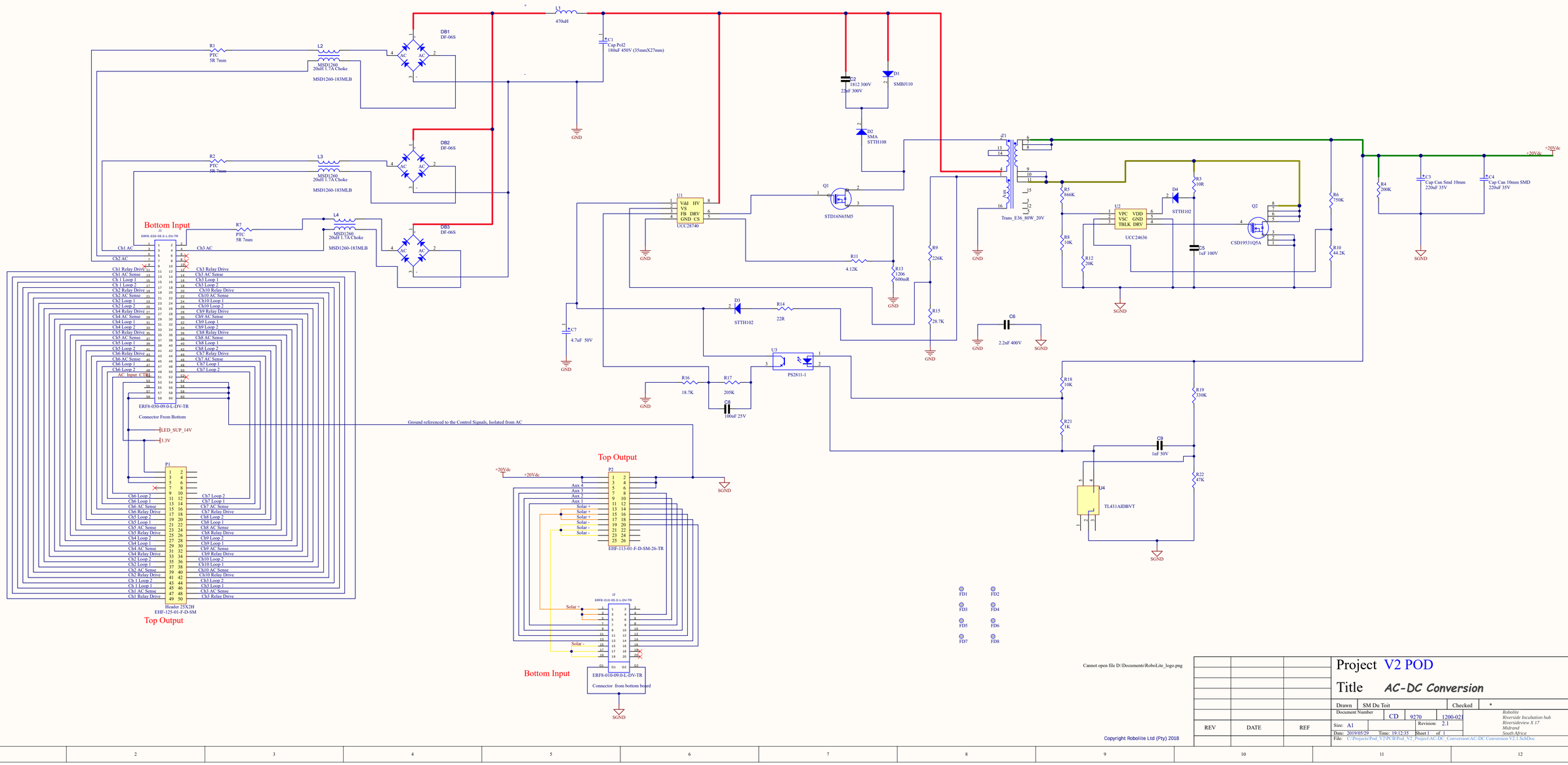
L1
470uH
DB1
DF-06S
C1
Cap Pol2
180uF 450V (35mmX27mm)
R1
PTC
5R 7mm
L2
MSD1260
20uH 1.7A Choke
MSD1260-183MLB
C2
1812 300V
22nF 300V
D1
SMBJ110
D2
SMA
STTH108
DB2
DF-06S
R2
PTC
5R 7mm
L3
MSD1260
20uH 1.7A Choke
MSD1260-183MLB
DB3
DF-06S
R7
PTC
5R 7mm
L4
MSD1260
20uH 1.7A Choke
MSD1260-183MLB
GND
U1
Vdd HV
VS
FB DRV
GND CS
UCC28740
Q1
STD16N65M5
R11
4.12K
R13
1206
660mR
R9
226K
R15
28.7K
D3
STTH102
R14
22R
C7
4.7uF 50V
U3
PS2811-1
R16
18.7K
R17
205K
C8
100nF 25V
T1
Trans_E36_80W_20V
C6
2.2nF 400V
R5
866K
R8
10K
R12
20K
U2
VPC VDD
VSC GND
TBLK DRV
UCC24636
D4
STTH102
R3
10R
C5
1uF 100V
Q2
CSD19531Q5A
R6
750K
R10
44.2K
R4
200K
C3
Cap Can Smd 10mm
220uF 35V
C4
Cap Can 10mm SMD
220uF 35V
+20Vdc
SGND
R18
10K
R21
1K
R19
330K
C9
1uF 50V
U4
TL431AIDBVT
R22
47K
Bottom Input
J5
ERF8-030-09.0-L-DV-TR
Ch1 AC
Ch2 AC
Ch3 AC
Ch1 Relay Drive
Ch1 AC Sense
Ch 1 Loop 1
Ch 1 Loop 2
Ch2 Relay Drive
Ch2 AC Sense
Ch2 Loop 1
Ch2 Loop 2
Ch3 Relay Drive
Ch3 AC Sense
Ch3 Loop 1
Ch3 Loop 2
Ch10 Relay Drive
Ch10 AC Sense
Ch10 Loop 1
Ch10 Loop 2
Ch9 Relay Drive
Ch9 AC Sense
Ch9 Loop 1
Ch9 Loop 2
Ch8 Relay Drive
Ch8 AC Sense
Ch8 Loop 1
Ch8 Loop 2
Ch7 Relay Drive
Ch7 AC Sense
Ch7 Loop 1
Ch7 Loop 2
AC_Input_CTRL
ERF8-030-09.0-L-DV-TR
Connector From Bottom
LED_SUP_14V
3.3V
P1
Header 25X2H
EHF-125-01-F-D-SM
Top Output
Ground referenced to the Control Signals, Isolated from AC
Top Output
+20Vdc
P2
Aux 4
Aux 3
Aux 2
Aux 1
Solar +
Solar +
Solar -
Solar -
EHF-113-01-F-D-SM-26-TR
J2
ERF8-010-09.0-L-DV-TR
Solar +
Solar -
ERF8-010-09.0-L-DV-TR
Connector from bottom board
Bottom Input
SGND
FD1
FD2
FD3
FD4
FD5
FD6
FD7
FD8
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Project V2 POD
Title AC-DC Conversion
Drawn SM Du Toit
Checked *
Document Number CD 9270 1200-021
Size: A1
Revision: 2.1
Date: 2019/05/29 Time: 19:12:35 Sheet 1 of 1
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