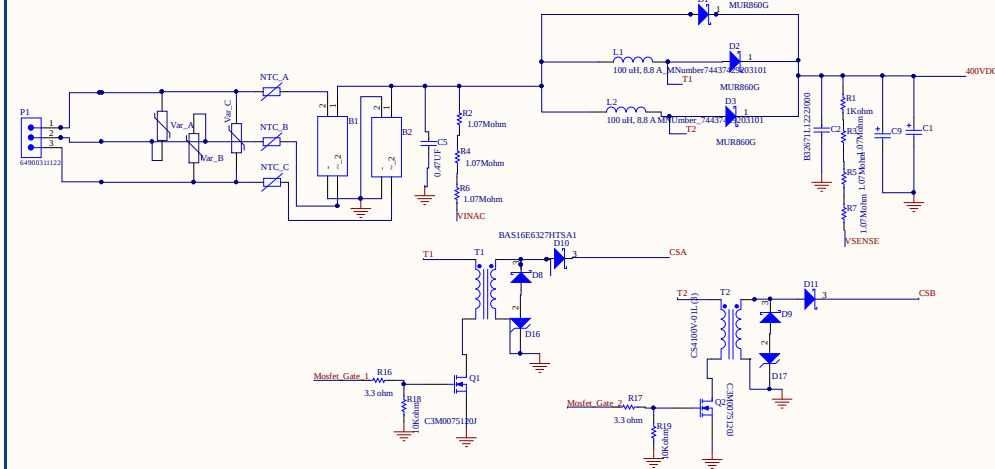
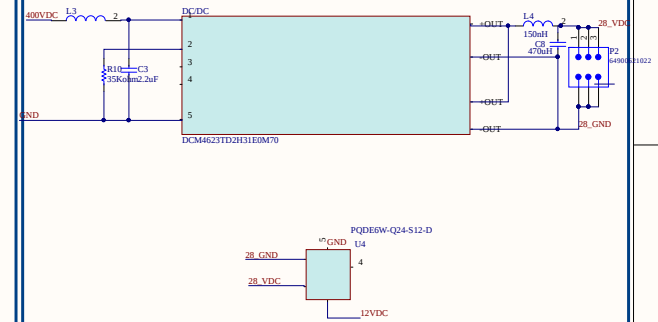


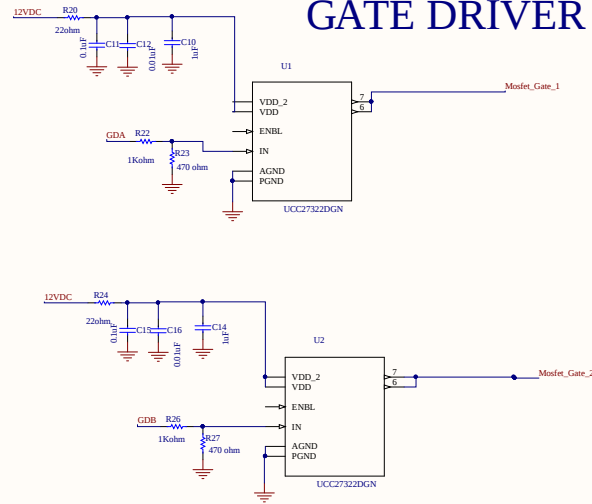
UCC28070PW Interleaved PFC Power Stage Schematic



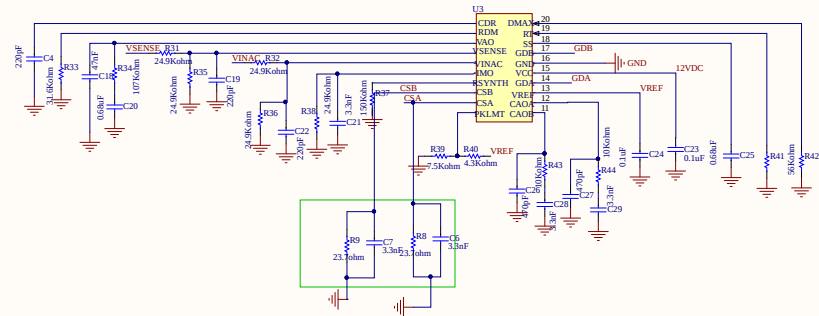
400VDC/28VDC Converter



GATE DRIVER

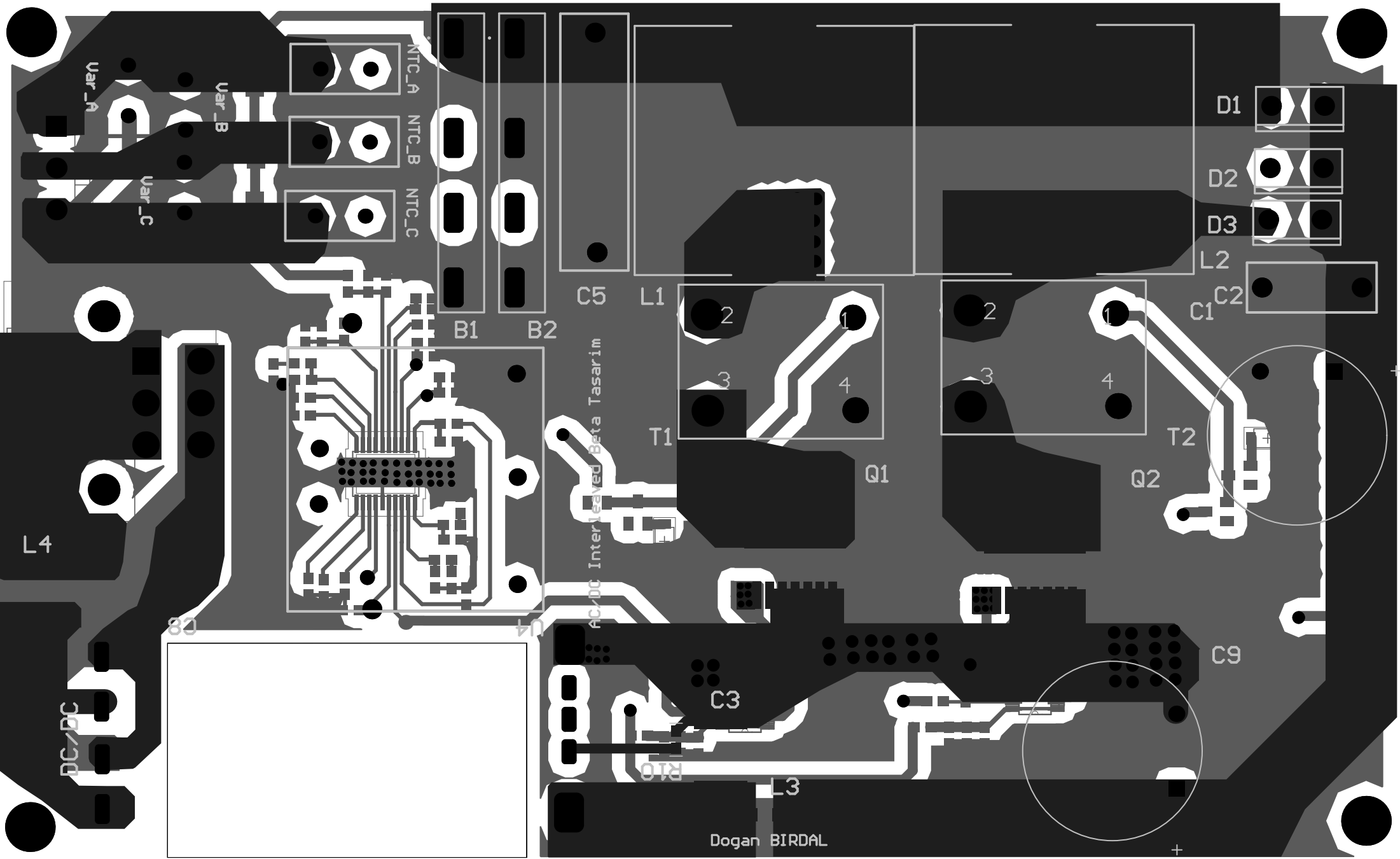


UCC28070PW Interleaved PFC Signal Stage Schematic



Enable Protection Circuit

Title		
Size	Number	Revision
A2		
Date	11.05.2020	Sheet of
File	F:\Powersup\PFC-Interleaved_BetaTest\Bsp\Bsp_2.SchDoc	



Comment	Description	Designator	Footprint	LibRef	Quantity
GB12506-BP	Bridge Rectifiers 25A 600V	B1, B2	GB1_1	GB12506-BP	2
400 Vdc, 100 uF	WCAP-ATG8 Aluminum Electrolytic Capacitors, 18x31.5mm, 400 Vdc, 100 uF	C1, C9	WCAP-ATG8_18x31.5x7.5	C 860011381012	2
E32671L1222X00	CAP FILM 2200PF 5% 1.6kVDC RAD	C2	C_SMD_2h2F	C 2h2F	1
2.2uF	CAP CER 2.2uF 450V X6S 2220	C3	C2220	C	1
C 220pF 603Package		C4, C19, C22	C_SMD_603	C	3
0.47uF	CAP FILM 0.47uF 20% 630VDC RAD	C5	CAP_BFC233820474	BFC233820474	1
3.3nF 0603pF Capacitor		C6, C7	C_SMD_603	C	2
470uH	CAP ALUM POLY 470uF 20% 35V SMD	C8	Cap_EEH-ZS1V471P	C	1
1uF, 50VDC 603Package	WCAP-ASLU Aluminum Electrolytic Capacitors, 4x5.5mm, 50 Vdc, 1 uF	C10, C14	C_SMD_603	C	2
50 Vdc, 0.1 uF 603Package	WCAP-ASLU Aluminum Electrolytic Capacitors, 4x5.5mm, 50 Vdc, 0.1 uF	C11	C_SMD_603	C	1
0.01uF, 50VDC 603Package	WCAP-ASLU Aluminum Electrolytic Capacitors, 4x5.5mm, 50 Vdc, 0.01 uF	C12, C16	C_SMD_603	C	2
50 Vdc, 0.1 uF 603Package	WCAP-ASLU Aluminum Electrolytic Capacitors, 4x5.5mm, 50 Vdc, 0.1 uF	C15	C_SMD_603	C	1
C 47nF 603Package		C18	C_SMD_603	C	1
C 0.68uF 603Package		C20, C25	C_SMD_603	C	2
C 3.3nF 603Package		C21, C28, C29	C_SMD_603	C	3
C 0.1uF 603Package		C23, C24	C_SMD_603	C	2
C 470pF 603Package		C26, C27	C_SMD_603	C	2
MUR860G	DIODE GEN PURP 600V RA TO220A	D1, D2, D3	FR805_Package_TO220 A	Diode	3
BAS166327HTSA1	INFINEON - BAS166327HTSA1 - DIODE, SWITCHING, 85V, SOT-23	D8, D9, D10	*SOT95P240X111-3N	BAS166327HTSA1 (3)	3
BAS166327HTSA1 (3)	INFINEON - BAS166327HTSA1 - DIODE, SWITCHING, 85V, SOT-23	O11	*SOT95P240X111-3N	BAS166327HTSA1 (3)	1
D MM5Z5268BT1G	DIODE ZENER 3.3V 500MW SOD123	D16, D17	SOD-123	D MM5Z5268BT1G	2
DCM4623TD2H110M7 0		DC/DC	Vicor_CM4623TD2H110M7 0M70	DCM4623TD2H110M7 0	1
100 uH, 8.8 A, MNumber 744374292 03101	WE-HCF SMD High Current Inductor, size 2920, 100 uH, 8.8 A	L1	WE-HCF_2920_Litz Wire	L 74437429203101	1
100 uH, 8.8 A MNumber_7443742920 3101	WE-HCF SMD High Current Inductor, size 2920, 100 uH, 8.8 A	L2	WE-HCF_2920_Litz Wire	L 74437429203101	1
LQM2HPN1R0MG0L		L3	Inductor_LQM2HPN1R0 MG0L	LQM2HPN1R0MG0L	1
150nH	IND IND 150NH 18.8A 4.6MOHM SMD	L4	PA5002.151NLT	PA5002.151NLT	1
B5723650200M000	ICL 250 OHM 40A 13MM	NTC_A, NTC_B, NTC_C	NTC_B5723650200M000	R PTCELL13R251NBE	3
64900311122	THT Male Header WR-MPC4, Vertical, Single Row, pitch 4.2mm, 3 pins	P1	64900311122	64900311122	1
64900621022	WR-MPC4 4.2mm Male Dual Row Angled Header with Mounting Flanges for Screw-in Retention, 6p	P2	64900621022	64900621022	1
C3M0075120J	N-Channel MOSFET, MOSFET N-CH 1200V 30A D2PAK-7	Q1, Q2	*C3M0075120J_TO127P 1435X457-8N	MOSFET-N	2
1kOhm 1206 Package		R1	R_SMD_1206	R	1
R 1.07Mohm 1206Package	(NoValue) R 1.07Mohm 1206 Package, R 1.07Mohm 1206 Package	R2, R4, R6	R_SMD_1206	R	3
1.07Mohm 1206 Package		R3, R5, R7	R_SMD_1206	R	3
23.7ohm 0603 package Resistor		R8, R9	R_SMD_603	R	2
35kOhm		R10	R_SMD_603	R	1
R 3.3 ohm 603 Package		R16	R_SMD_603	R	1
R 3.3ohm 603 Package		R17	R_SMD_603	R	1
R 10kohm 603 Package		R18	R_SMD_603	R	1
R 10kohm 603Package		R19	R_SMD_603	R	1
R 22ohm 603Package		R20, R24	R_SMD_603	R	2
R 3Kohm 603Package		R22, R26	R_SMD_603	R	2
R 470ohm 603 Package		R23	R_SMD_603	R	1
R 470ohm 603Package		R27	R_SMD_603	R	1
R 24.9kohm 603 Package		R31, R32, R35, R36, R38	R_SMD_603	R	5
R 31.5kohm 603 Package		R33	R_SMD_603	R	1
R 107kohm 603 Package		R34	R_SMD_603	R	1
R 150kohm 603 Package		R37	R_SMD_603	R	1
R 7.5kohm 603 Package		R39	R_SMD_603	R	1
R 4.3kohm 603 Package		R40	R_SMD_603	R	1
R 75kohm 603 Package		R41	R_SMD_603	R	1
R 68kohm 603 Package		R42	R_SMD_603	R	1
R 10kohm 603 Package		R43	R_SMD_603	R	1
R 10 Kohm 603 Package		R44	R_SMD_603	R	1
CS4100V-01L (3)	COILCRAFT - CS4100V-01L - TRANSFORMER, CURRENT SENSE, 1100, 24A	T1, T2	Current_Sense_Trans	CS4100V-01L (3)	2
UCC27322DGN	Single 9-A High Speed Low-Side MOSFET Driver With Enable & MSOP-PowerPAD -40 to 105	U1, U2	UCC27322DGN_SOIC12 79600X175-8N	UCC27322DGN	2
UCC28070PW (2)	TEXAS INSTRUMENTS UCC28070PW IC, PFC CONTROLLER 20-TSSOP	U3	UCC28070_SOP65P640X 120-20N	UCC28070PW (2)	1
PQDE6W-Q24-S12-D		U4	DC/DC_PQDE6W-Q24-S12-D	DC/DC_Converter_PQD E6W-Q24-S12-D	1
B 8722075044K1301	Varistors Varistor 507K4	Var_A, Var_B, Var_C	Varistor_B722075044K3	R 8722075044K1301	3