	1	2 3 4 5	$\neg$
	01. Table of Contents:	LED Display Power Supply, Quad—Phase 5V, 45A Buck Converter	
		Marquette University Senior Design 2018/2019, Group E44	,
		Drew Maatman, Kvein Etta, Logan Wedel, Caroline Gilger, Tuoxuan Ren	
А			
		Power Input	
	02. Power Input	Power_Input.sch	
	03. +5V Control	POSS Control	
		POS5_Control.sch	
	04. +5V Phase 1	POS5_Phase_1	
		POS5_Phase_1.sch	
В	05. +5V Phase 2	POS5 Phase 2	
		POS5_Phase_2.sch	
	06. +5V Phase 3	POSS Phase 3	
		POS5_Phase_3.sch	
	07. +5V Phase 4	POSS Phase 4	
		POS5_Phase_'4.sch	
	08. +5.5V MNG	POSSPS_MNG.sch	
		Power Output	
	09. Power Output	Power_Output.sch	
	40 Maskastast	Mechanical	
С	10. Mechanical	Mechanical.sch	ľ
	11. Active Load 1	Active Load 1	
	II. ACUVE LUGU I	Active_Load_1.sch	
	12. Active Load 2	Active Load 2	
		Active_Load_2.sch	
	13. Active Load 3	Active Load 3	
		Active_Load_3.sch	
	14. Loop Response	Loop Response	
		Coop_Response.sch	
D		Sheet: /	$\dashv$
		File: LTC7851_Demo.sch  Title:	$\dashv$
		Size: A Date: Rev:	_
		KiCad E.D.A. kicad (5.0.1)-3 ld: 1/14	
	1	2 3 4 5	

## 02. Power Input Q201 IPC100N04S51R7ATMA1 Q202 IPC100N04S51R7ATMA1 PWR\_FLAG +12Vin TP202 PWR\_FLAG J201 1 +12V IN 7343 + C204 16V 100uF 7343 + C206 16V 100uF 7343 + C208 16V 10% 100uF D201 24V GND R205 R206 PWR\_FLAG 0603 0603 1% 1/10W 1% 1/10W U201 u LTC4365DDB TP201 GND Vin CATE Vout ECO1 Cap added to slow down +12V rise time R208 +5.5V\_MNG C205 0805 50V 10nF X7R 0603 50V X7R SHDN 0603 1% 1/10W R201 0603 1% 9 1/10W FAULT R202 9 0603 1% 1/10W EC02 74LVC1G06 OV GND 0603 50V X7R C207 Fan added for forced air cooling +12Vin 0603 50V X7R C201 C202 C203 Sheet: /Power Input/ File: Power\_Input.sch Title: Size: A Date: Rev: KiCad E.D.A. kicad (5.0.1)-3 ld: 2/14























