Setting the output voltage:

	RX/RY
3.3V:	3.30K & 100K
5V:	1.91K
6.5V:	1.50K & 22.0K
12V:	732 & 30.0K
15V:	562
16.5V:	510
24V:	374 & 4.32K

RX/Y = 8000/(Vout-0.8)

RX1/RY1 are 0.1% 805
RX2/RY2 are 1.0% 805

Output capacitor values and voltage ratings

	ceramic	electrolyte
7V:	100u / 16V	10m / 16V
12V:	47u / 25V	5.6m / 25V
17V:	47u / 25V	3.9m / 35V
24V:	22u / 50V	2.7m / 50V

Output filter: 50dB suppression at 260kHz

Thermal switch, 70C

LTC3703EG

OP184ES

TL431

LM317S

BC856ALTI

MMBT3906

FDB3682

FDB3652

STPS41H100

Title	Synchronous Buck Regulator: PM
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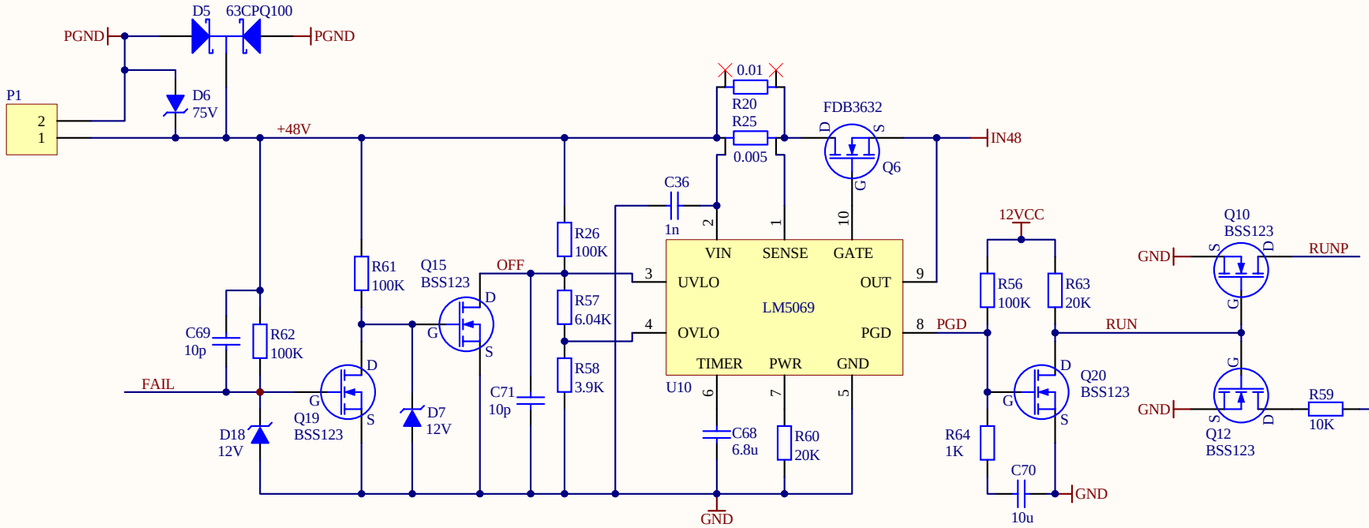
File: C:\User\..\PowerSupplyPM1.SchDoc	Drawn By: Paul Schwinberg/Daniel Sigg

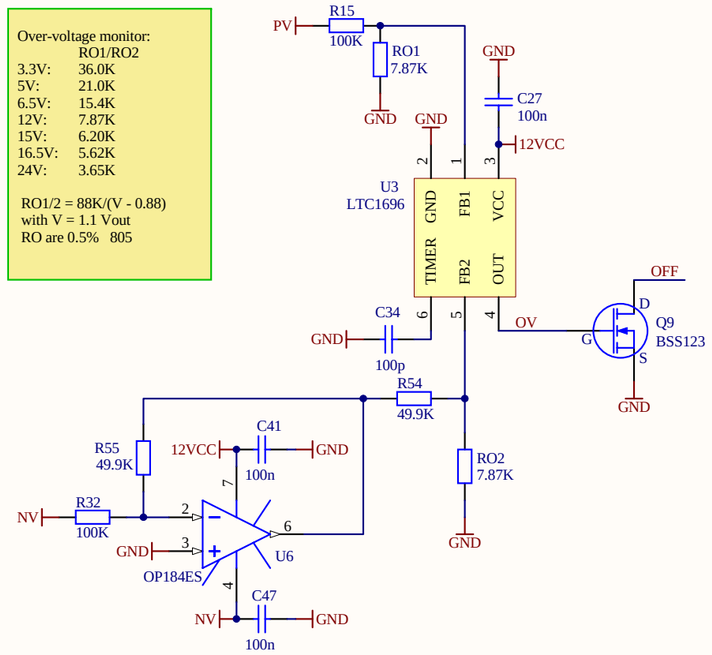
48V DC nominal
20A or smaller fuse required

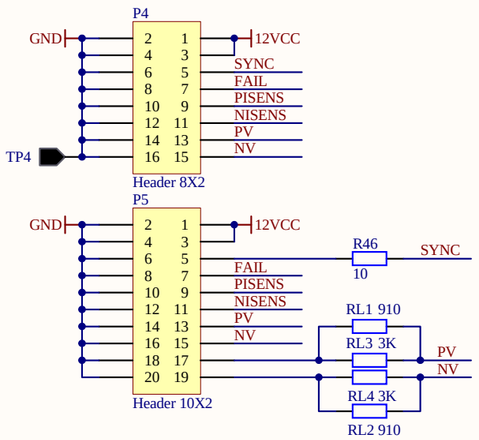


Over-voltage monitor:

	RO1/RO2
3.3V:	36.0K
5V:	21.0K
6.5V:	15.4K
12V:	7.87K
15V:	6.20K
16.5V:	5.62K
24V:	3.65K

RO1/2 = 88K/(V - 0.88)
with V = 1.1 Vout
RO are 0.5% 805





Setting the LED current:

	RL1/RL2
3.3V:	124
5V:	255
6.5V:	374
12V:	910
15V:	1.30K
16.5V:	1.50K
24V:	3.00K

RL1/2 = RL3/4 V /
(ILED RL3/4 - V)
with V = Vout-VLED
RL are 1% 1206

Title: Synchronous Buck Regulator: PM		
Size: B	Number: D060431	Revision: C
Date: 4/3/2007	Sheet 2 of 2	
File: C:\User\..\PowerSupplyPM2.SchDoc	Drawn By: Paul Schwinberg/Daniel Sigg	