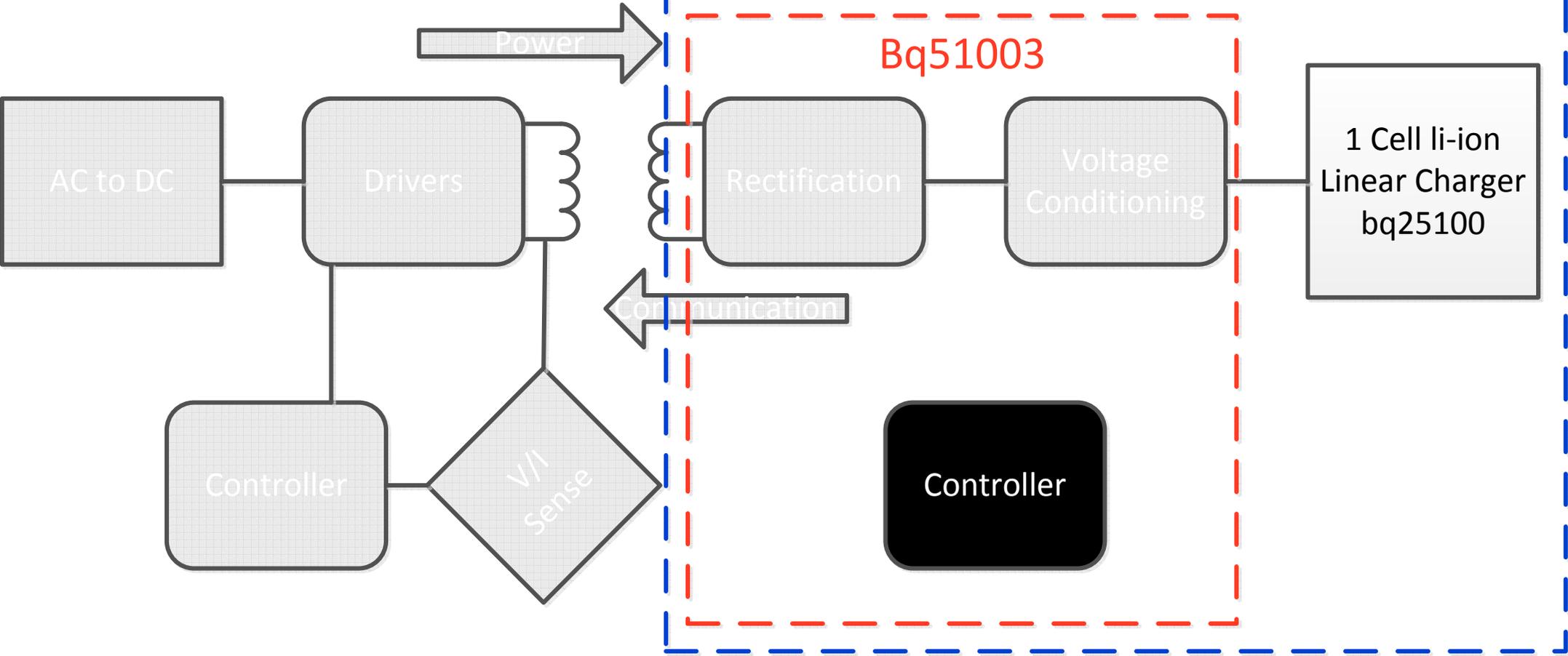


Wireless TX



Power

TIDA-00318

Bq51003

AC to DC

Drivers

Rectification

Voltage  
Conditioning

1 Cell li-ion  
Linear Charger  
bq25100

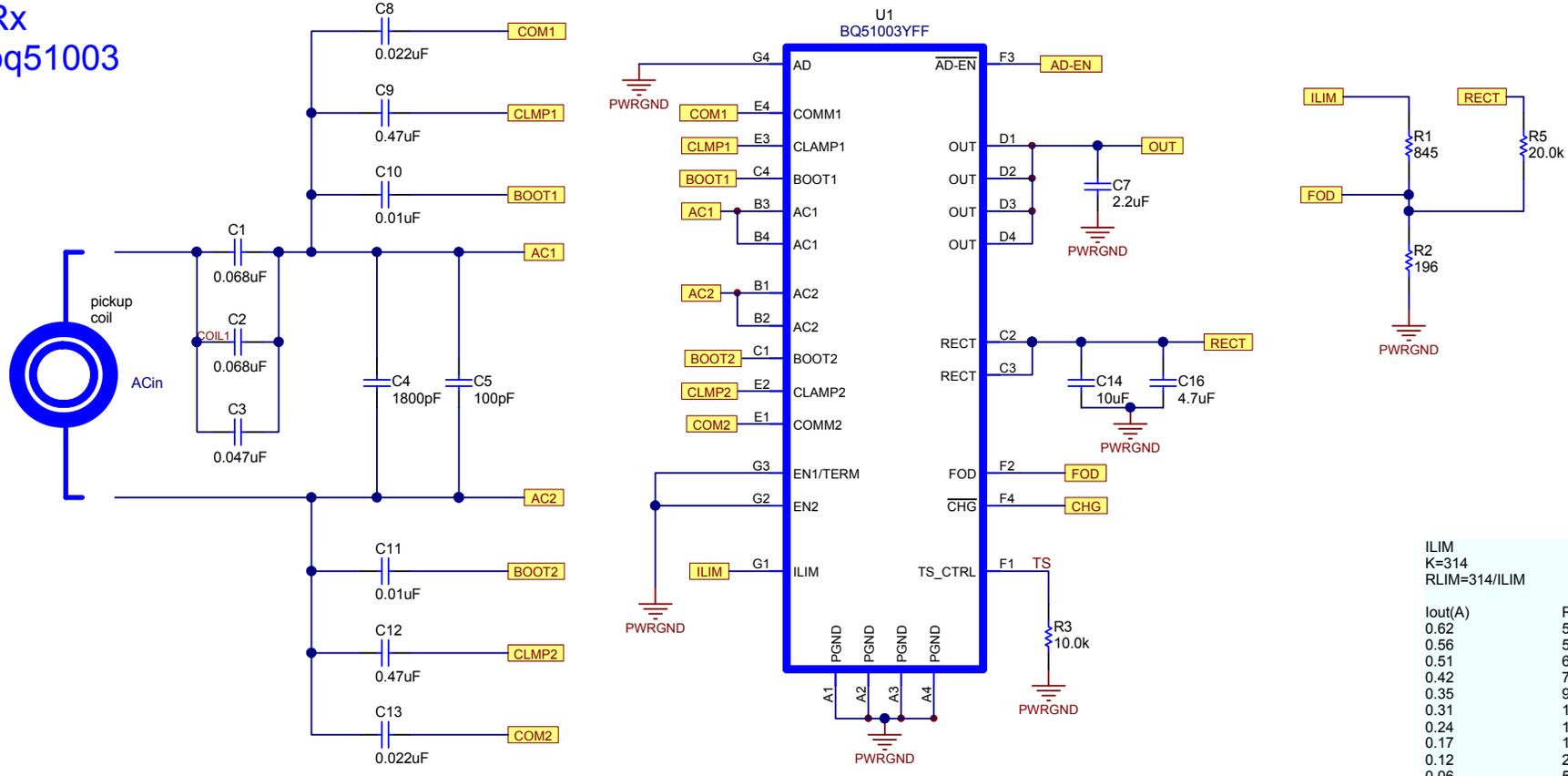
Controller

V/I  
Sense

Controller

Communication

# Rx bq51003

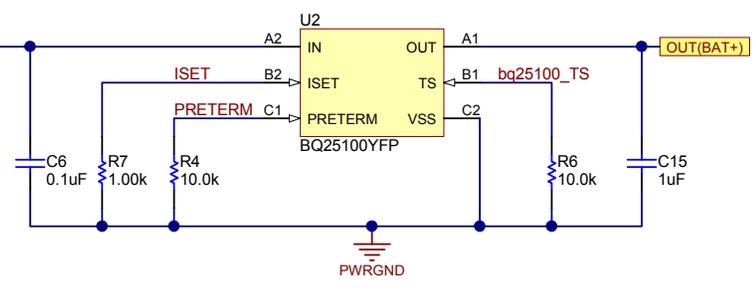


ILIM  
K=314  
RLIM=314/ILIM

Iout(A)	R(ohm)
0.62	510
0.56	560
0.51	620
0.42	750
0.35	910
0.31	1,000
0.24	1,300
0.17	1,800
0.12	2,700
0.06	5,100

# Charger bq25100

I<sub>cc</sub> = 135mA  
Pre = 33.3%  
Term = 16.7%



Pre-charge		Fast-charge		Termination	
K=300		K=135		K=600	
50(%)x300=15kohm		R=135/Current		50(%)x600=30kohm	
% of CC(%)	R(kohm)	I <sub>cc</sub> (A)	R(ohm)	% of CC(%)	R(kohm)
100	30	0.24	560	50	30
90	27	0.22	620	45	27
80	24	0.20	680	40	24
67	20	0.18	750	33	20
60	18	0.15	910	30	18
50	15	0.12	1100	25	15
40	12	0.10	1300	20	12
30	9.1	0.08	1800	15	9.1
21	6.2	0.05	2700	10	6.2
10	3	0.01	13000	5	3

Designed for: Public Release | Mod. Date: 8/20/2014  
 Project Title: TIDA-00318  
 Sheet Title: TIDA-00318  
 SVN Rev: Not in version control | Assembly Variant: Variant name not interpreted | Sheet: 1 of 2  
 Drawn By: Marco Hsieh | File: TIDA-00318.SchDoc | Size: A4  
 Engineer: Marco Hsieh | Contact: <http://www.ti.com/support>



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