BQ25505 Configuration for LiFePo battery charging (OV 3.7V) and solar power source

User Input	VBIAS 1	,21 V Fixed										
	Typically the max e.g. 4.2V for Lilor		oltage,	Comparator threshold voltages indicating when VSTORhas risen above VBAT_OK_HYST or fallen below VBAT_OK. VBAT_OV > VBAT_OK_HYST > VBAT_UV			For the bq25570 only, comparator threshold for VOUT of buck converter. 1.3V VOUT VBAT_OV			Maximum power point threshold, e.g. ~0.7-0.8 of solar panel's open circuit voltage. MPPT		
	VBAT	_UV < VBAT_C	V ≤5.5V									
Desired				RSUM ¹	12 MW					RSUM ¹	20 MW	
Desired	RSUM ¹	10 MW		VBAT_OK	2,7 V	> VBAT_UV	RSUM ¹	13 MW		VIN_DC(OC)	6 V	Open Circuit Volts
Desired	VBAT_OV	3,7 V		VBAT_OK_HYST	3 V	> VBAT_OK	VOUT	3,3 V		VREF_SAMP	4 V	MPP voltage
			1			%resistor ¹			1			1%resistor ¹
			1%resistor ¹		Exact <	>		closest 1%			Exact <	>
Computed		Exact <	>	ROK1	4,840 4,750	4,870 MW		Exact <	>	ROC1	3,333 3,32	0 3,400 MW
Computed	ROV1	4,905 4,870	0 4,990 MW	ROK2	5,960 5,900	6,040 MW	ROUT1	4,767 4,750	4,870 MW	+10MEG ²	10,000 10,000	10,000 MW
Computed	ROV2	5,095 4,99	0,110 1111	ROK3	1,200 1,130	1,270 MW	+10MEG ²	0,000 0,000	0,000 MW	ROC2	6,667 6,65	0 6,810 MW
Computed	VBAT_OV	3,67	5 3,674 V	VBAT_OK	2,713	3 2,711 V	ROUT2	8,233 8,060	8,250 MW	+10MEG ²	0,000 0,00	0 0,000 MW
Computed				VBAT_OK_HYST	3,001	3,026 V	VOUT	3,263	3,260 V	VREFSAMP		2 3,978 V
Selected	ROV1	4,99 Mw		ROK1	4,99 MW		ROUT1	4,75 MW		ROC1	3,3 MW	
Selected	ROV2	4,99 Mw		ROK2	5,99 MW		'+10MEG ²	0,00 MW		+10MEG ²	10,000 MW	
Selected	INOVZ	4,99 IVIW		ROK3	1 MW		ROUT2	8,25 MW		ROC2	6,6 MW	
20100104				1.010	1			V V		+10MEG ²	0,000 MW	
Typ voltage ³	VBAT_OV(typ)	3,630 V	-1,93 %diff	VBAT_OK(typ)	2,662 V	-1,41 %diff	VOUT(typ)	3,312 0,35	%diff	TOWILLO	J.	
Typ voltage ³	12,3 V(typ)	0,000	1,00 70011	VBAT_OK_HYST (typ)	2,905 V	-3,27 %diff	1001(typ)	0,00	70411	VREF_SAMP	4,010 V	0,25 %diff

¹If the available 1% resistors for the recommend resistor total (RSUM) produce too high of % difference, try using the closest 1% and < resistor cross combo ORincreasing or decreasing RSUM in order to find a closer 1% resistor match ORadding 1 or more additional resistors and use two resistors in series that sum to the recommended value.

²Granularity of resistors values > 10 Mohm is greatly reduced so you may need to use a 10 Mohm resistor in series with a smaller resistor in order to achieve the desired resistance value.

³Total dc regulation accuracy isa function of VBIAStolerance, resistor tolerance, line regulation, load regulation and output voltage ripple (i.e., output capacitance).