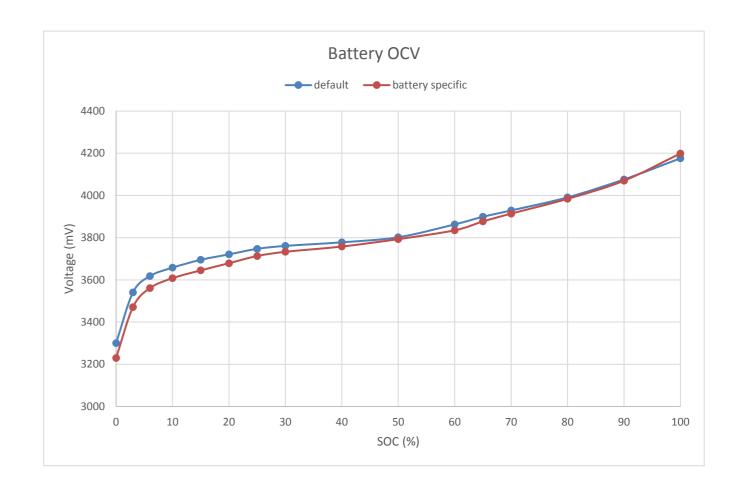
• Example for a 3.7V battery (4.2V max charge voltage)

	correspon	Default	
register	ding	OCV curve	
Address	SOC (%)	voltage (mV)	REG_OCVTAB
		STC3115AIJT	Default
		(4.2V max battery)	register value (mV)
0x30	0	3300	0
0x31	3	3541	0
0x32	6	3618	0
0x33	10	3658	0
0x34	15	3695	0
0x35	20	3721	0
0x36	25	3747	0
0x37	30	3761	0
0x38	40	3778	0
0x39	50	3802	0
0x3A	60	3863	0
0x3B	65	3899	0
0x3C	70	3929	0
0x3D	80	3991	0
0x3E	90	4076	0
0x3F	100	4176	0

Example	with	licor	specific	hattery

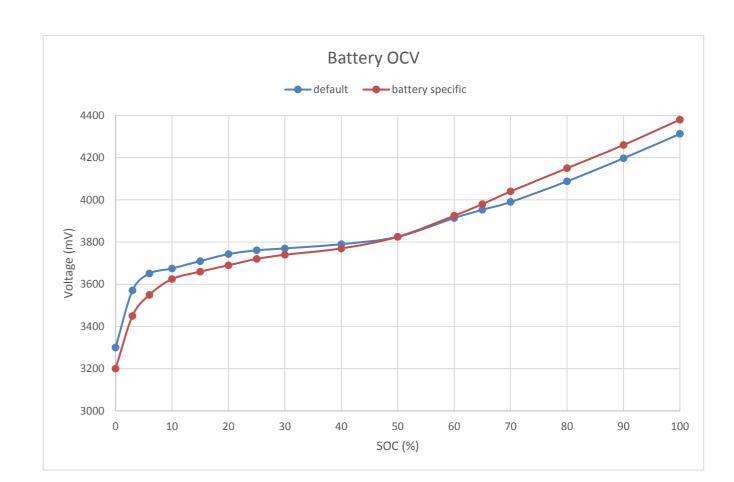
Example with user specific battery			
Battery specific OCV curve	OCV offset (mV)	register REG_	OCVTAB value
[mV]	(relative to reference curve)	Dec (0.55 mV)	Hex (0.55 mV)
3230	-70	-127	FFFFFFF81
3471	-70	-127	FFFFFFF81
3561	-57	-104	FFFFFFF98
3608	-50	-91	FFFFFFFA5
3645	-50	-91	FFFFFFFA5
3679	-42	-76	FFFFFFFB4
3713	-34	-62	FFFFFFFC2
3733	-28	-51	FFFFFFFCD
3758	-20	-36	FFFFFFFDC
3793	-9	-16	FFFFFFFF0
3835	-28	-51	FFFFFFFCD
3877	-22	-40	FFFFFFFD8
3914	-15	-27	FFFFFFFE5
3984	-7	-13	FFFFFFFF3
4070	-6	-11	FFFFFFFF5
4199	23	42	2A



• Example for a 3.8V battery (4.35V max):

	correspon	Default	
register	ding	OCV curve	
Address	SOC (%)	voltage (mV)	REG_OCVTAB
		STC3115IJT	Default
		(4.35V max battery)	register value (mV)
0x30	0	3300	0
0x31	3	3571	0
0x32	6	3651	0
0x33	10	3675	0
0x34	15	3710	0
0x35	20	3743	0
0x36	25	3761	0
0x37	30	3770	0
0x38	40	3790	0
0x39	50	3825	0
0x3A	60	3914	0
0x3B	65	3953	0
0x3C	70	3990	0
0x3D	80	4088	0
0x3E	90	4197	0
0x3F	100	4313	0

Example with user specific battery			
Battery specific OCV curve	OCV offset (mV)	register REG_	OCVTAB value
[mV]	(relative to reference curve)	Dec (0.55 mV)	Hex (0.55 mV)
3200	-100	-182	FFFFFFF4A
3450	-121	-220	FFFFFFF24
3550	-101	-184	FFFFFFFF48
3625	-50	-91	FFFFFFFA5
3660	-50	-91	FFFFFFFA5
3690	-53	-96	FFFFFFFA0
3720	-41	-75	FFFFFFFB5
3740	-30	-55	FFFFFFFC9
3770	-20	-36	FFFFFFFDC
3825	0	0	00
3925	11	20	14
3980	27	49	31
4040	50	91	5B
4150	62	113	71
4260	63	115	73
4380	67	122	7A



• Example for the min/max battery voltage:

register Address	correspon ding SOC (%)	Default OCV curve voltage (mV)	REG_OCVTAB
		STC3115AIJT (4.2V max battery)	Default register value (mV)
0x30	0	3300	0
0x31	3	3541	0
0x32	6	3618	0
0x33	10	3658	0
0x34	15	3695	0
0x35	20	3721	0
0x36	25	3747	0
0x37	30	3761	0
0x38	40	3778	0
0x39	50	3802	0
0x3A	60	3863	0
0x3B	65	3899	0
0x3C	70	3929	0
0x3D	80	3991	0
0x3E	90	4076	0
0x3F	100	4176	0

regis		OCV offset (mV)	Battery OCV curve
Offset MIN (8bit) Dec (0.55 mV)	Offset MIN (8bit) Hex (0.55 mV)	(relative to reference curve)	[mV]
-128	FFFFFFF80	-70.4	3229.6
-128	FFFFFFF80	-70.4	3470.6
-128	FFFFFFF80	-70.4	3547.6
-128	FFFFFFF80	-70.4	3587.6
-128	FFFFFFF80	-70.4	3624.6
-128	FFFFFFF80	-70.4	3650.6
-128	FFFFFFF80	-70.4	3676.6
-128	FFFFFFF80	-70.4	3690.6
-128	FFFFFFF80	-70.4	3707.6
-128	FFFFFFF80	-70.4	3731.6
-128	FFFFFFF80	-70.4	3792.6
-128	FFFFFFF80	-70.4	3828.6
-128	FFFFFFF80	-70.4	3858.6
-128	FFFFFFF80	-70.4	3920.6
-128	FFFFFFF80	-70.4	4005.6
-128	FFFFFFF80	-70.4	4105.6

regi	ster	OCV offset	Battery
REG_OCV	ΓAB value	(mV)	OCV curve
Offset MAX (8bit)	Offset MAX (8bit)	(relative to	[mV]
Dec (0.55 mV)	Hex (0.55 mV)	reference curve)	[mV]
127	7F	69.85	3369.85
127	7F	69.85	3610.85
127	7F	69.85	3687.85
127	7F	69.85	3727.85
127	7F	69.85	3764.85
127	7F	69.85	3790.85
127	7F	69.85	3816.85
127	7F	69.85	3830.85
127	7F	69.85	3847.85
127	7F	69.85	3871.85
127	7F	69.85	3932.85
127	7F	69.85	3968.85
127	7F	69.85	3998.85
127	7F	69.85	4060.85
127	7F	69.85	4145.85
127	7F	69.85	4245.85

Battery 4.20V - OCV min/max → default → Offset min → Offset max Voltage (mV) 3800 SOC (%)

• Example for the min/max battery voltage:

vo gistov	correspon	Default OCV curve	
register	ding	OCV curve	
Address	SOC (%)	voltage (mV)	REG_OCVTAB
		STC3115IJT	Default
		(4.35V max battery)	register value (mV)
0x30	0	3300	0
0x31	3	3571	0
0x32	6	3651	0
0x33	10	3675	0
0x34	15	3710	0
0x35	20	3743	0
0x36	25	3761	0
0x37	30	3770	0
0x38	40	3790	0
0x39	50	3825	0
0x3A	60	3914	0
0x3B	65	3953	0
0x3C	70	3990	0
0x3D	80	4088	0
0x3E	90	4197	0
0x3F	100	4313	0

register REG_OCVTAB value		OCV offset (mV)	Battery OCV curve
Offset MIN (8bit) Dec (0.55 mV)	Offset MIN (8bit) Hex (0.55 mV)	(relative to reference curve)	[mV]
-128	FFFFFFF80	-70.4	3229.6
-128	FFFFFFF80	-70.4	3500.6
-128	FFFFFFF80	-70.4	3580.6
-128	FFFFFFF80	-70.4	3604.6
-128	FFFFFFF80	-70.4	3639.6
-128	FFFFFFF80	-70.4	3672.6
-128	FFFFFFF80	-70.4	3690.6
-128	FFFFFFF80	-70.4	3699.6
-128	FFFFFFF80	-70.4	3719.6
-128	FFFFFFF80	-70.4	3754.6
-128	FFFFFFF80	-70.4	3843.6
-128	FFFFFFF80	-70.4	3882.6
-128	FFFFFFF80	-70.4	3919.6
-128	FFFFFFF80	-70.4	4017.6
-128	FFFFFFF80	-70.4	4126.6
-128	FFFFFFF80	-70.4	4242.6

register		OCV offset	Battery
REG_OCV	TAB value	(mV)	OCV curve
Offset MAX (8bit) Dec (0.55 mV)	Offset MAX (8bit) Hex (0.55 mV)	(relative to reference curve)	[mV]
127	7F	69.85	3369.85
127	7F	69.85	3640.85
127	7F	69.85	3720.85
127	7F	69.85	3744.85
127	7F	69.85	3779.85
127	7F	69.85	3812.85
127	7F	69.85	3830.85
127	7F	69.85	3839.85
127	7F	69.85	3859.85
127	7F	69.85	3894.85
127	7F	69.85	3983.85
127	7F	69.85	4022.85
127	7F	69.85	4059.85
127	7F	69.85	4157.85
127	7F	69.85	4266.85
127	7F	69.85	4382.85

