

Serial Communication

Parameter	Format
Baud Rate	115200
Word Length	8 (including Parity)
Parity	None
Stop Bits	1

Monitor commands

Command	Response	Explanation
AT+OK?	OK	
AT+OV?	A total list of all parameters (no AT structure)	
AT+RC?	RC: <Reported remaining Capacity>	[Ah]
AT+RSC?	RC: <Reported State of Charge>	[%]
AT+TTE?	TTE: <Time tot empty>	[Seconds]
AT+TTF?	TTF: <Time tot Full>	[Seconds]
AT+CV1?	CV1: <voltage of cell 1>	CV1: +3.5906 [V]
AT+CV2?	CV2: <voltage of cell 2>	
AT+CV3?	CV3: <voltage of cell 3>	
AT+CV4?	CV4: <voltage of cell 4>	
AT+CVT?	CVT: <voltage of total pack>	CVT: +14.3525
AT+PC?	PC: <Current from system to battery (Pack Current)>	[A]
AT+TH1?	TH1: <temperature 1>	[°C]
AT+TH2?	TH2: <temperature 2>	
AT+TH3?	TH3: <temperature 3>	
AT+TH4?	TH4: <temperature 4>	
AT+THD?	THD: <Die temperature>	
AT+ST1?	ST1: <0xcontent status register>	[Hex value] Status 00h Alert status and chip status
AT+ST2?	ST2: <0xcontent status register>	Status2 B0h maintains status of hibernate mode
AT+ST3?	ST3: <0xcontent status register>	ProtStaus D9h Fault status of the protection functionality
AT+ST4?	ST4: <0xcontent status register>	ProAlrt Afh History of previous fault status of the protection functionality

AT+ST5?	ST5: <0xcontent status register>	CommStat 61h protection control and status of each page register
AT+ENPB	ENPB OK	Enable passive balancing
AT+DSPB	DSPB OK	Disable passive balancing
AT+RST	RESET OK: successful reset Reset NOK: unsuccessful reset	Reset monitor IC
AT+INT	INT OK: successful init	Initialize monitor IC

Charger commands

Command	Response	Explanation
AT+OK?	OK	
AT+OV?	A total list of all parameters (no AT structure)	
AT+RSIV	RSIV	Set input voltage to 4.736V
AT+RSMV	RSMV	Set max charge voltage to 16.768V
AT+INT	INT	Initialize chargecontroller
AT+RSTV	RSTV	Reset voltage
AT+RSTP	RSTP	Reset power
AT+CURRE0	CUR=0: OK	Set current to 0A
AT+CURRE1	CUR=1: OK	Set current to 0.128A
AT+CURRE2	CUR=2: OK	Set current to 0.256A
AT+CURRE3	CUR=3: OK	Set current to 0.512A
AT+CURRE4	CUR=4: OK	Set current to 1.024A
AT+CURRE5	CUR=5: OK	Set current to 2.048A
AT+CURRE6	CUR=6: OK	Set current to 4.096A
AT+CURRE7	CUR=7: OK	Set current to 8.192A
AT+CURRE8	CUR=8: OK	Set current to 12.288A
AT+CURRE9	CUR=9: OK	Set current to 14.336A
AT+CURREA	CUR=A: OK	Set current to 16.256A

Error Codes

Parameter	Format	Description
AT_UNDEFINED_ERROR	0	We could not identify the error, but there is one...
AT_WRONG_VALUE	1	The supplied value is not supported, e.g. when enabling something only 0 and 1 are allowed
AT_WRONG_COMMAND	2	The supplied AT command is not recognized