		Holding Address	OID	Parameter name	Parameter Details	Factory Setting	Range	Scale factor	Unit	Notes	Read/Write
Monitoring	Battery	40005	1.3.6.1.4.1.50811.101.xx.1.1.2.0	Charging status	Current charging status: 0 = None / 1 = Recovery / 2 = Bulk / 3 = Absorption / 4 = Float		0-4				Read only
		40008	1.3.6.1.4.1.50811.101.xx.1.1.3.0	Battery voltage	Voltage measured at the battery terminals		0-65535		mV		Read only
		40014	1.3.6.1.4.1.50811.101.xx.1.1.4.0	Battery charge current	Measured value of the battery charge current		0-65535		mA		Read only
		40016	1.3.6.1.4.1.50811.101.xx.1.1.12.0	Battery capacity consumed	The capacity that has been consumed from the battery (e.g 500 = 50Ah)		0-65535	scale factor 0.1	Ah	Size 4 only	Read only
		40017	1.3.6.1.4.1.50811.101.xx.1.1.5.0	Battery discharge current	Measured value of the battery discharge current		0-65535		mA		Read only
		40018	1.3.6.1.4.1.50811.101.xx.1.1.15.0	Effective battery capacity	Actual battery capacity as determined by the device monitoring charge and discharge cycles (e.g 500 = 50Ah)		0-65535	scale factor 0.1	Ah	Size 4 only	Read only
		40019	1.3.6.1.4.1.50811.101.xx.1.1.14.0	Battery charge efficiency factor (CEF)	Indicates how much of the energy provided during charge is available during discharge		0-100		%	Size 4 only	Read only
		40021	1.3.6.1.4.1.50811.101.xx.1.1.11.0	Battery state-of-health	The state-of-health of the battery		0-100		%	Size 4 only	Read only
		40022	1.3.6.1.4.1.50811.101.xx.1.1.10.0	Time remaining to 100% discharge	Remaining time to 0% SoC during discharge if the load remains unchanged		0-65535		min	Size 4 only	Read only
		40023	1.3.6.1.4.1.50811.101.xx.1.1.6.0	Battery state-of-charge	Displays the percent state of charge of the battery, with a 0.1 scale factor (e.g. 800=80%)		0-1000	scale factor 0.1	%		Read only
		40024	1.3.6.1.4.1.50811.101.xx.1.1.7.0	Battery type currently selected	The battery type currently selected (0 = Open lead, 1 = AGM lead, 2 = GEL lead, 3 = NiCd , 4 = LiIon)		0-4				Read only
		40026	1.3.6.1.4.1.50811.101.xx.1.1.8.0	Battery temperature	Temperature measured on the battery by means of the external battery temperature probe in Kelvin units, conversion formula T(°C) = T(K)-273		233-381 (-40°C ...+108°C)		K		Read only
		40028	1.3.6.1.4.1.50811.101.xx.1.1.13.0	Battery net internal resistance	Battery internal resistance as measured by the device. It is shown only if the Nominal battery cables resistance (Holding Register 40102) is nonzero and the lifetest is enabled (e.g. 450 = 45.0mΩ)		0-65535	scale factor 0.1	mΩ	Size 4 only	Read only
		40089	1.3.6.1.4.1.50811.101.xx.1.1.9.0	Number of battery cells	Number of the battery cells expected according to the selected chemistry and the output voltage setting (12/24/48V)		Lead: 6/12/24 NiCd: 10/20/40 LiIon: 4/8/16				Read only
	Device	40006	1.3.6.1.4.1.50811.101.xx.1.2.11.0	Power management DC-UPS	0 = Backup (mains is not available and the load connected at the Output Load terminals is supplied by the battery) 1 = Charging (mains is available and the battery charging) 2 = Power boost (the power required to supply the load connected at the Output Load terminals is drawn both from the mains and from the battery) 3 = Not charging (battery is not connected or a wrong battery is connected or a there is a short circuit at the output load terminals)		0-3				Read only
		40007	1.3.6.1.4.1.50811.101.xx.1.2.1.0	Nominal output voltage	12 = 12 Vdc Output Setting ; 24 = 24 Vdc Output Setting; 48 = 48Vdc Output Setting		12/24/48		V		Read only
		40009	1.3.6.1.4.1.50811.101.xx.1.2.10.0	Parameter map version ID	Identifier of the release of the device parameter map	15					Read only
		40027	1.3.6.1.4.1.50811.101.xx.1.2.2.9	Configuration mode	0 = Configuration mode disabled 1 = Configuration mode enabled		0-1				Read only
		40067	1.3.6.1.4.1.50811.101.xx.1.2.8.0	Product name	Device type (1 = CBI1235A, 2 = CBI2420A, 3 = CBI4810A, 4 = CBI2801224, 7 = CBI480W, 8 = CB122410A, 9 = CB480W auxiliary load, 11 = CB12245AJ, 12 = CB1235A, 13 = CB2420A, 14 = CB4810A)		0-255				Read only
		40039	1.3.6.1.4.1.50811.101.xx.1.2.4.0	Device variant	Variant of the product		0-65535				Read only
		40103	1.3.6.1.4.1.50811.101.xx.1.2.6.0	Firmware ID	Identifier of the device firmware release		0-65535				Read only
	Input	40030	1.3.6.1.4.1.50811.101.xx.1.3.2.0	AC input voltage	AC Input voltage		90-135/ 180-305		VAC	Size 4 only	Read only
	Load	40011	1.3.6.1.4.1.50811.101.xx.1.4.1.0	Output load voltage	Voltage measured at the output load terminals		0-65535		mV	Size 4 only	Read only
		40020	1.3.6.1.4.1.50811.101.xx.1.4.2.0	Output load current	Measured value of the current drawn from the output load terminals		0-65535		mA	Size 4 only	Read only
History	Battery	40048	1.3.6.1.4.1.50811.101.xx.2.1.1.0	Number of charge cycles completed	Number of completed charge cycles		0-65535				Read/write
		40049	1.3.6.1.4.1.50811.101.xx.2.1.2.0	Charge cycles not completed	Number of aborted charge cycles, not completed		0-65535				Read/write
		40050	1.3.6.1.4.1.50811.101.xx.2.1.3.0	Ah charged	Total Ampere-hours charged: scale factor 0.1 (e.g. 1000 = 100Ah)		0-65535	scale factor 0.1	Ah		Read/write
		40051	1.3.6.1.4.1.50811.101.xx.2.1.4.0	Total run time	Total run time in charging mode		0-65535		min		Read/write
		40052	1.3.6.1.4.1.50811.101.xx.2.1.5.0	Number of low battery voltage events	Number of low-battery-voltage events		0-65535				Read/write
		40053	1.3.6.1.4.1.50811.101.xx.2.1.6.0	Number of high battery voltage events	Number of high voltage events at the battery output terminals		0-65535				Read/write
		40058	1.3.6.1.4.1.50811.101.xx.2.1.7.0	Number power boost events	Number of powerboost events		0-65535				Read/write
		40059	1.3.6.1.4.1.50811.101.xx.2.1.8.0	Highest battery voltage	Highest voltage acquired at the battery terminals		0-65535		mV		Read/write
		40062	1.3.6.1.4.1.50811.101.xx.2.1.9.0	Lowest battery voltage	Lowest voltage acquired at the battery terminals		0-65535		mV		Read/write
		40061	1.3.6.1.4.1.50811.101.xx.2.1.10.0	Maximum depth of discharge	Maximum depth of discharge attained during discharge (e.g. 800 = 80%)		0-1000	scale factor 0.1	%	Size 4 only	Read/write
		40064	1.3.6.1.4.1.50811.101.xx.2.1.11.0	Average depth of discharge	Average depth of discharge attained during discharge (e.g. 800 = 80%)		0-1000	scale factor 0.1	%	Size 4 only	Read/write

Group	Sub	Modbus	SNMP OID	Name	Description	Default	Range	Scale	Unit	Notes	Access
Device		40056	1.3.6.1.4.1.50811.101.xx.2.2.1.0	Number of overtemperature inside events	Number of internal overtemperature events		0-65535				Read/write
Input		40054	1.3.6.1.4.1.50811.101.xx.2.3.1.0	Number of low AC input voltage events at mains input	Number of low AC input voltage events at the mains AC input		0-65535			Size 4 only	Read/write
Input		40055	1.3.6.1.4.1.50811.101.xx.2.3.2.0	Number of High AC input voltage events at mains input	Number of high AC input voltage events at the mains AC input		0-65535			Size 4 only	Read/write
Input		40057	1.3.6.1.4.1.50811.101.xx.2.3.3.0	Number of mains-backup transitions	Number of mains - backup transitions		0-65535				Read/write
Load		40060	1.3.6.1.4.1.50811.101.xx.2.4.1.0	Highest output load voltage	Highest voltage acquired at the output load terminals		0-65535		mV	Size 4 only	Read/write
Load		40063	1.3.6.1.4.1.50811.101.xx.2.4.2.0	Lowest output load voltage	Lowest voltage acquired at the output load terminals		0-65535		mV	Size 4 only	Read/write
Settings	Battery	40069	1.3.6.1.4.1.50811.101.xx.5.1.9.0	Reset internal battery model	Resets the battery model computed by the device over cycles	0	0-1			Size 4 only	Read/write
Settings	Battery	40101	1.3.6.1.4.1.50811.101.xx.5.1.1.0	Nominal battery internal resistance	Battery nominal internal resistance as provided by the battery datasheet (e.g. 50 = 5.0mΩ)	0	0-5000	scale factor 0.1	mΩ	Size 4 only	Read/write
Settings	Battery	40102	1.3.6.1.4.1.50811.101.xx.5.1.2.0	Nominal battery cables resistance	Total resistance of the cables connecting the device to the battery (e.g. 50 = 5.0mΩ)	0	0-5000	scale factor 0.1	mΩ	Size 4 only	Read/write
Settings	Battery	40105	1.3.6.1.4.1.50811.101.xx.5.1.3.0	Battery capacity C20	Twenty-hour rate capacity in Ah (scale factor 0,1: 500=50Ah)	1000	0-10000	scale factor 0.1	Ah		Read/write
Settings	Battery	40106	1.3.6.1.4.1.50811.101.xx.5.1.4.0	Battery Capacity C10	Ten-hour rate capacity in Ah (scale factor 0,1: 500=50Ah)	1000	0-10000	scale factor 0.1	Ah	Size 4 only	Read/write
Settings	Battery	40108	1.3.6.1.4.1.50811.101.xx.5.1.5.0	Battery Capacity C5	Five-hour rate capacity in Ah (scale factor 0,1: 500=50Ah)	1000	0-10000	scale factor 0.1	Ah	Size 4 only	Read/write
Settings	Battery	40109	1.3.6.1.4.1.50811.101.xx.5.1.6.0	Battery Capacity C2	Two-hour rate capacity in Ah (scale factor 0,1: 500=50Ah)	1000	0-10000	scale factor 0.1	Ah	Size 4 only	Read/write
Settings	Battery	40112	1.3.6.1.4.1.50811.101.xx.5.1.7.0	Battery Capacity C1	One-hour rate capacity in Ah (scale factor 0,1: 500=50Ah)	1000	0-10000	scale factor 0.1	Ah	Size 4 only	Read/write
Settings	Battery	40113	1.3.6.1.4.1.50811.101.xx.5.1.8.0	Low state-of-charge	Battery state of charge level under which an alarm is triggered indicating low state of charge (e.g. 500 = 50%)	500	0-900	scale factor 0.1	%	Size 4 only	Read/write
Configuration	Battery	40071	1.3.6.1.4.1.50811.101.xx.3.1.1.0	Deep discharge battery prevention	Battery voltage at which, during backup, the device shuts down to prevent the battery from being deeply discharged	1670 (Lead)/ 1000 (NiCd)/ 2500 (LiIon)	1400-2180 (Lead)/ 900-1100 (NiCd)/ 2500-3000 (LiIon)		mV/cell	CBI devices only	Read/write
Configuration	Battery	40072	1.3.6.1.4.1.50811.101.xx.3.1.2.0	Maximum charge current	Sets the maximum allowed charging current (12/24/48V)	Size 3: 35000/20000/10000 Size 4: 15000/10000/-	Size 3: 3500-35000/ 2000-20000/1000-10000 Size 4: 1500-15000/ 1000-10000		mA		Read/write
Configuration	Battery	40073	1.3.6.1.4.1.50811.101.xx.3.1.3.0	Bulk voltage	Bulk voltage setting per cell	2400 (Lead)/ 1510 (NiCd)/ 3650 (LiIon)	2200-2500 (Lead)/ 1400-1550 (NiCd)/ 3400-3700 (LiIon)		mV/cell		Read/write
Configuration	Battery	40074	1.3.6.1.4.1.50811.101.xx.3.1.4.0	Max bulk timer	Maximum bulk duration timer	8	1-24		h		Read/write
Configuration	Battery	40075	1.3.6.1.4.1.50811.101.xx.3.1.5.0	Min bulk timer	Minimum bulk duration timer	2	1-5		min		Read/write
Configuration	Battery	40077	1.3.6.1.4.1.50811.101.xx.3.1.7.0	Absorption voltage	Absorption voltage setting per cell	2375 (Lead)/ 1510 (NiCd)/ 3650 (LiIon)	2200-2500 (Lead)/ 1300-1550 (NiCd)/ 3400-3700 (LiIon)		mV/cell		Read/write
Configuration	Battery	40078	1.3.6.1.4.1.50811.101.xx.3.1.8.0	Max absorption timer	Maximum absorption duration timer	8	1-24		h		Read/write
Configuration	Battery	40079	1.3.6.1.4.1.50811.101.xx.3.1.9.0	Min absorption timer	Minimum absorption duration timer	15	1-240		min		Read/write
Configuration	Battery	40080	1.3.6.1.4.1.50811.101.xx.3.1.10.0	Return Amperes to float	Return current value (% of maximum charge current) to go to float	6	1-100		%		Read/write
Configuration	Battery	40081	1.3.6.1.4.1.50811.101.xx.3.1.11.0	Return amps timer	Return current timer to go to float	30	1-240		sec		Read/write
Configuration	Battery	40082	1.3.6.1.4.1.50811.101.xx.3.1.12.0	Float voltage	Float voltage setting per cell	2230 (Open Lead)/ 2250 (AGM Lead)/ 2300 (GEL Lead)/ 1400 (NiCd)/ 3450 (LiIon)	2210-2450 (Lead)/ 1300-1550 (NiCd)/ 3400-3700 (LiIon)		mV/cell		Read/write
Configuration	Battery	40083	1.3.6.1.4.1.50811.101.xx.3.1.13.0	Force boost charge	If set to 1 during float charge, it forces a transition to bulk charge	0	0-1				Read/write
Configuration	Battery	40084	1.3.6.1.4.1.50811.101.xx.3.1.14.0	Return to bulk voltage from float	Voltage below which the system transitions from float to bulk charge	2000 (Lead) / 1200 (NiCd)/ 3000 (LiIon)	2000-2200 (Lead)/ 1200-1320 (NiCd)/ 3000-3300 (Lion)		mV/cell		Read/write
Configuration	Battery	40085	1.3.6.1.4.1.50811.101.xx.3.1.15.0	Return to bulk delay	float to bulk transition delay after the battery voltage has got below the "Return to bulk voltage" voltage level (Holding register 40084)	30	1-240		sec		Read/write
Configuration	Battery	40087	1.3.6.1.4.1.50811.101.xx.3.1.23.0	Switchoff voltage without mains	Device turnoff voltage when mains is not available.	2183 (Lead)/ 1310 (NiCd)/ 3274 (Lion)	2000-2208 (Lead)/ 1200-1325 (NiCd)/ 3000-3312 (Lion)		mV/cell	CB devices only	Read/write
Configuration	Battery	40092	1.3.6.1.4.1.50811.101.xx.3.1.18.0	Lifetest enable	0 = Battery lifetest disabled 1 = Battery lifetest enabled	0	0-1				Read/write

		Address	OID	Name	Description	Default	Range	Unit	Note	Access
Alarm		40093	1.3.6.1.4.1.50811.101.xx.3.1.19.0	Max alarm temp	Battery overtemperature alarm threshold. If the battery temperature is higher than this value the bit 5 of the Holding Register 40032 is set to 1	333 (+60°C)	293-333 (+20°C …+60°C)	K		Read/write
		40094	1.3.6.1.4.1.50811.101.xx.3.1.20.0	Min alarm temp	Battery undertemperature alarm threshold. If the battery temperature is lower than this value the bit 5 of the Holding Register 40032 is set to 1	253 (-20°C)	253-293 (-20°C …+20°C)	K		Read/write
		40097	1.3.6.1.4.1.50811.101.xx.3.1.21.0	Low battery threshold	Low battery alarm threshold during discharge.	1833 (Lead)/ 1100 (NiCd)/ 2750 (Lion)	1600-2180 (Lead)/ 1000-1200 (NiCd)/ 2500-3200 (Lion)	mV/cell		Read/write
	Device	40065	1.3.6.1.4.1.50811.101.xx.3.2.8.0	History clear all	Clears all the histories	0	0-1			Read/write
		40066	1.3.6.1.4.1.50811.101.xx.3.2.1.0	Factory settings	Set the configuration parameters to their default value	0	0-1			Read/write
		40088	1.3.6.1.4.1.50811.101.xx.3.2.3.0	Backup Inhibit	0 = Backup allowed 1 = Backup not allowed	0	0-1			Read/write
		40104	1.3.6.1.4.1.50811.101.xx.3.2.4.0	Time buffering	Time buffering setting in backup	0 (no time limit)	0-65535	sec		Read/write
	Load	40107	1.3.6.1.4.1.50811.101.xx.3.4.1.0	Device switchoff delay	Delay of the device power off in backup after the battery voltage has been found lower than the completely discharged Battery Voltage (as expressed by holding register 40071)	10	1-240	sec		Read/write
	Communications	40001	1.3.6.1.4.1.50811.101.xx.3.5.1.0	Address of slave unit	Device modbus address	1	1-247			Read/write
		40002	1.3.6.1.4.1.50811.101.xx.3.5.2.0	Baud rate for serial communication	Baud rate of serial communication with the device	38400	4800 / 9600/ 19200 / 38400	bps		Read/write
		40003	1.3.6.1.4.1.50811.101.xx.3.5.3.0	Parity bit for serial communication	Parity bit of serial communication: 0 = No parity with 2 stop bits; 1 = Odd parity with 1 stop bit; 2 = Even parity with 1 stop bit; 3 = No parity with 1 stop bit	2	0-3			Read/write
Alarm	**Battery**	40032	1.3.6.1.4.1.50811.101.xx.4.1.1.0	Battery status alarm	bit0 = Reversed polarity, bit1 = battery not connected, bit2 = internal cell shorted, bit3 = sulphated battery, bit4 = power boost, bit5 = battery temperature outside the battery temperature alarm thresholds set through the Holding Registers 40093 and 40094, bit6 = unsupported chemistry setting, bit7 = bad battery cables or connection					Read only
		40033	1.3.6.1.4.1.50811.101.xx.4.1.4.0	Battery State of Charge and State of Health alarm	bit 0: SOH low, internal resistance of the battery too high bit 1: SOH low, charge efficiency factor of the battery too low bit 2: SOH low, effective capacity of the battery too low bit 8: low state of charge				bitx=1-->alarm, Size 4 only	Read only
		40035	1.3.6.1.4.1.50811.101.xx.4.1.2.0	Battery voltage alarm	bit0 = High battery voltage bit1 = low battery voltage bit2 = device was powered up by pressing the BATTERY START button with a battery almost flat					Read only
		40044	1.3.6.1.4.1.50811.101.xx.4.1.3.0	Battery temperature sensor failure	bit0 = battery temperature sensor is connected but faulty				Size 4 only	Read only
	Device	40043	1.3.6.1.4.1.50811.101.xx.4.2.1.0	Device failure	bit0..2 = Internal failure, bit3 = Lifetest not possible					Read only
		40047	1.3.6.1.4.1.50811.101.xx.4.2.2.0	On board temperature alarm	0 = Temperature inside the device is ok 1 = Temperature inside the device is too high		0-1			Read only
	Input	40045	1.3.6.1.4.1.50811.101.xx.4.3.1.0	AC input voltage alarm	bit0 = high AC input voltage, bit1 = low AC input voltage				Size 4 only	Read only
		40046	1.3.6.1.4.1.50811.101.xx.4.3.2.0	Input mains on / backup	0 = Mains available 1 = Mains not available		0-1			Read only
	Load	40038	1.3.6.1.4.1.50811.101.xx.4.4.1.0	Load alarm	Short circuit or overload at the output load terminals If the power supply function is enabled at the battery terminals a short circuit or overload at the battery terminals causes the same alarm.		0-1			Read only
			(*) xx:0..30 Modbus slave address							