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	Holding Address	OID	Parameter name	Parameter Details	Factory Setting	Range	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		
		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		
		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 = Lilon)		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 $T(^{\circ}C) = T(K)-273$		233-381 (-40^{\circ}C ... +108^{\circ}C)	K	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)		233-381 (-40^{\circ}C ... +108^{\circ}C) Lead: 6/12/24 NiCd: 10/20/40 Lilon: 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 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				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 = CBI22410A, 9 = CB480W_auxiliary load, 11 = CB12245AJ, 12 = CBI235A, 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	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			
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
			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
Load		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		
		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	
	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		
	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 (Lilon)	1400-2180 (Lead)/ 900-1100 (NiCd)/ 2500-3000 (Lilon)	mV/cell	CBI devices only	Read/write		
	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		
	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 (Lilon)	2200-2500 (Lead)/ 1400-1550 (NiCd)/ 3400-3700 (Lilon)	mV/cell		Read/write		

Configuration	Register Address	Register Name	Description	Data Type	Range	Unit	Access	Notes	
									Value
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	
	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	
	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 (Lilon)	2200-2500 (Lead)/ 1300-1550 (NiCd)/ 3400-3700 (Lilon)	mV/cell	Read/write	
	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	
	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	
	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	
	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	
	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 (Lilon)	2210-2450 (Lead)/ 1300-1550 (NiCd)/ 3400-3700 (Lilon)	mV/cell	Read/write	
	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	
	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 (Lilon)	2000-2200 (Lead)/ 1200-1320 (NiCd)/ 3000-3300 (Lilon)	mV/cell	Read/write	
	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	
	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 (Lilon)	2000-2208 (Lead)/ 1200-1325 (NiCd)/ 3000-3312 (Lilon)	mV/cell	CB devices only Read/write	
	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	
	40093	1.3.6.1.4.1.50811.101.xx.3.1.19.0	Max alarm temp	Battery overtemperature alarm threshold	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	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 (Lilon)	1600-2180 (Lead)/ 1000-1200 (NiCd)/ 2500-3200 (Lilon)	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 too high, bit6 = unsupported chemistry setting, bit7 = bad battery cables or connection			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		