


Characteristics | Settings

**WARNING!** Incorrect operation can cause serious injury and damage. Observe battery manufacturer's instructions. When parameters are being set, make sure that battery is disconnected from charger. Overheated battery and high charging voltage can cause serious injury and damage. When using the „formatting“ or „deep discharge“ characteristics, disconnect battery from the vehicle, always supervise the battery and disconnect it from the charger, if a battery temperature of 60 °C (140 °F) is exceeded.

| | | |
|------------------------|--|-------------------------|
| Serial Number | | Additional Information: |
| Item Number: | | |
| Main Software Version: | | |

Factory setting for this device:

| Battery | | | | | | | | | | |
|---------|------|---------------|--------------|--------------|--------------|-------------|-----------------|-------------------|-------------------|----------------|
| Name | Type | Charging Time | I1 (A/100Ah) | I2 (A/100Ah) | I3 (A/100Ah) | U1 (V/Cell) | Charging Factor | Cut-Off Criterion | Ch.Fac.Calib. (%) | Trickle Charge |
| | | | | | | | | | | |

| | | |
|---------------------|----|-----|
| Equalisation Charge | ON | OFF |
|---------------------|----|-----|

| Options: | |
|----------|---------------------------------|
| | Electrolyte circulation |
| | External start/stop |
| | Charging lights |
| | Temperature controlled charging |
| | Relay board |
| | Option box |
| | LED strip |
| | Floor bracket |
| | Wall bracket |
| | Airfilter |
| | „Mobile“ kit |
| | RCS remote indication |

| Configuration Relay Board or Option Box: | | | | | Relais 1 | Relais 2 | Relais 3 | Relais 4 |
|--|----------------------|--|--|--|----------|----------|----------|----------|
| | Aquamatic | | | | | | | |
| | Charge finish | | | | | | | |
| | Common error message | | | | | | | |
| | Immobiliser | | | | | | | |
| | Main charge finished | | | | | | | |
| | Battery cooled down | | | | | | | |
| | External air pump | | | | | | | |
| | Charge 80 % | | | | | | | |
| | Charge in progress | | | | | | | |
| | On | | | | | | | |
| | Refill indicator | | | | | | | |

| No. | Name | Type | Charging Time | I1 (A/100Ah) | I2 (A/100Ah) | I3 (A/100Ah) | U1 (V/Cell) | Charging Factor | Cut-Off Criterion | Ch.Fac.Calib. (%) | Trickle Charge |
|---|--|-----------|---------------|--------------|--------------|--------------|-------------------|------------------|-------------------|-------------------|--|
| Battery Pb - WET (PzS, GIs, ..): | | | | | | | | | | | |
| 6 | Ri - WET | RIUPoTC | 5-12 [7-8] | X | X | X | 2.4 (Ri-compens.) | X | intelligent | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 1 | IUI - WET | IUIoTC | X | 12-25 [20] | 5 | X | 2.35-2.50 [2.40] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 30 | FCC IUI - WET ⁵ | IUIoTC | X | 20-40 [35] | 5 | X | 2.35-2.45 [2.40] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 13 | I-Puls - WET | IUIPiPoTC | X | 12-25 [25] | 4 | X | 2.35-2.45 [2.40] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 3 | IU - WET | IUoTC | X | 12-25 [20] | X | X | 2.35-2.45 [2.40] | X | dI/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 8 | Charging Fador - WET ¹ | IUIoTC | X | 12-25 [20] | 5 | X | 2.35-2.45 [2.40] | 1.10-1.25 [1.20] | charging factor | 95-100 [100] | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 9 | Buffering - WET ² | IUoTC | X | 30 | X | X | 2.35-2.45 [2.40] | X | X | X | Uconst |
| 10 | Deep discharge - WET ³ | IUoTC | 120 | 2 | X | X | 2.6 | X | fixed time | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 11 | Formating - WET ⁴ | IUIoTC | X | 40 | 4 | X | 2.4 | X | fixed time | X | IU-Puls |
| 20 | Formating2A - WET ⁴ | IUIoTC | X | 40 | 4 | X | 2.4 | X | fixed time | X | Iconst |
| 43 | FCC - IU - WET ⁶ | IUoTC | X | 20-40 [35] | X | X | 2.35-2.45 [2.40] | X | dI/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU_Puls] |
| Battery Pb - GEL (PzV, GIV, ..): | | | | | | | | | | | |
| 2 | IUI - GEL | IUIoTC | X | 10-20 [15] | 1.2 | X | 2.30-2.45 [2.35] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 4 | IU - GEL | IUIoTC | X | 10-20 [15] | X | X | 2.30-2.40 [2.35] | X | dI/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 12 | Formating - GEL ⁴ | IUIoU | X | 40 | 3 | X | 2.35 | X | fixed time | X | Uconst |
| 33 | Buffering - GEL ² | IUIoU | X | 25 | X | X | 2.30-2.40 [2.35] | X | X | X | Uconst |
| 34 | Deep discharge - GEL ³ | IUIoTC | 60 | 2 | X | X | 2.35 | X | fixed time | X | Uconst |
| 39 | Tab Traction Gel | IUIoTC | X | 15 | 1.3 | X | 2.35 | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [Uconst] |
| 40 | Exide Motive Power Gel | IUIoTC | X | 15 | 1.3 | X | 2.4 | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU_Puls] |
| 41 | Sunlight MotionGel | IUIoTC | X | 15 | 1.3 | X | 2.4 | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU_Puls] |
| Battery Pb - CSM - WET (Copper Strained Metal): | | | | | | | | | | | |
| 31 | IUI - CSM - WET | IUIoTC | X | 12-25 [25] | 5 | X | 2.35-2.45 [2.40] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 28 | FCC IUI - CSM - WET ⁶ | IUIoTC | X | 25-40 [35] | 5 | X | 2.35-2.45 [2.40] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 32 | Deep discharge - CSM - WET ³ | IUIoTC | 120 | 2 | X | X | 2.6 | X | fixed time | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| Battery Pb - PzQ - WET: | | | | | | | | | | | |
| 35 | IUI - PzQ - WET | IUIoTC | X | 12-25 [25] | 5 | X | 2.35-2.45 [2.40] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 36 | FCC IUI - PzQ - WET ⁶ | IUIoTC | X | 25-40 [35] | 5 | X | 2.35-2.45 [2.40] | X | dU/dt | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| 37 | Deep discharge - PzQ - WET ³ | IUIoTC | 120 | 2 | X | X | 2.6 | X | fixed time | X | I-Puls, IU-Puls, Uconst, OFF [IU-Puls] |
| Battery Lead Crystal (EVFJ, CNFJ): | | | | | | | | | | | |
| 25 | EVFJ - Lead Crystal | IIUIoU | X | 20 | 10 | 5 | 2.45 | X | current @ U1 | X | Uconst, OFF |
| 26 | CNFJ - Lead Crystal | IIUIoU | X | 30 | 15 | X | 2.47 | X | current @ U1 | X | Uconst, OFF |
| Battery NiCd: | | | | | | | | | | | |
| 14 | IU - NiCd | IUIoTC | X | 10-25 [20] | X | X | 1.40-1.75 [1.65] | X | dI/dt | X | Uconst, OFF [Uconst] |
| 44 | SAFT SMRX SRX MSX MRX - NiCd | IUIoTC | X | 10-25 [20] | X | X | 1.47 | X | dI/dt | X | Uconst, OFF [Uconst] |
| 45 | Buffering - SAFT SMRX SRX MSX MRX - NiCd | IUIoU | X | 10-40 [30] | X | X | 1.41 | X | X | X | Uconst |
| Battery Pb - WET (PzS, GIs, ..) Pb - GEL (PzV, GIV, ..): | | | | | | | | | | | |
| 42 | TagID guided charging | X | 5-12 | X | X | X | X | X | intelligent | X | IU-Puls |

1) Charging factor..... Adjustable overcharging of the battery

2) Trickle charge..... is intended for stand-by batteries, starter batteries, batteries with parallel consumers (Power supply for waggons, trains, Charging of batteries for Solar plants, boats)

3) Deep discharge..... Use only for deep discharged batteries (Battery voltage below the normal operating range) or reactivation charge

4) Formating Initial charge of the battery (formatting charge)

5) FCC Fast Charging Curves requires temperature controlled charging

Values in brackets are preset standard values | Valid from CHARGE CONFIG V 1.10.0