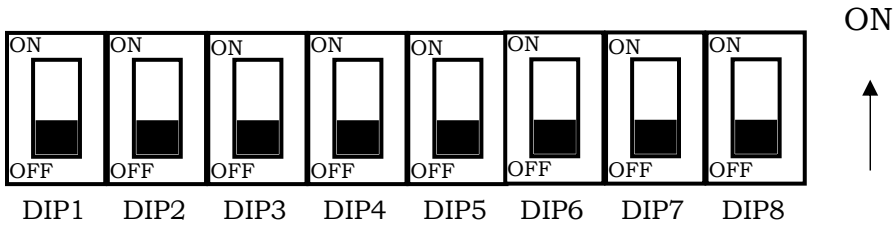
# Elite PRO 1 XP Series

In the following tables you will find the details for setting the models CBHF2-XP-M 36-30 and CBHF2-XP-M 48-22 battery chargers with firmware version **010-168-002** shown on the display during start-up.




DIP1, DIP2, DIP3, DIP4 are for the selection of the charging curve.

DIP5, DIP6 are for the selection of the maximum charging current.

DIP7, DIP8 are for the setting the required nominal battery voltage.

**SEE TABLES BELOW and on NEXT PAGE**

## CHARGING CURVES

| MEMORY POSITION | CURVE TYPE – application | DP1-DP2-DP3-DP4 |
|---|---|---|
| 00 | **IUUo+eq** – for FAST charging GEL batteries (nanoGEL) | ON-ON-ON-ON |
| 01 | **IUIa** – for FLA batteries | OFF-ON-ON-ON |
| 02 | null | ON-OFF-ON-ON |
| 03 | **IUUo** – for SLA batteries | OFF-OFF-ON-ON |
| 04 | **IUIo** – for FLA batteries | ON-ON-OFF-ON |
| 05 | **IUUo** – for AGM batteries | OFF-ON-OFF-ON |
| 06 | **IUUo** – for GEL batteries | ON-OFF-OFF-ON |
| 07 | **IIUa** – for LFP batteries to 3.45vpc | OFF-OFF-OFF-ON |
| 08 | **IIUa** – for LFP batteries o 3.55vpc | ON-ON-ON-OFF |
| 09 | **IUo** for SLI batteries | OFF-ON-ON-OFF |
| 10 | **IUUo+eq** – for GEL batteries (nanoGEL) | ON-OFF-ON-OFF |
| 11 | **IUIa** – for GEL batteries (Sonnenschein) | OFF-OFF-ON-OFF |
| 12 | null | ON-ON-OFF-OFF |
| 13 | **IUIa dV/dT**- for AGM lead-acid batteries (Trojan AES) | OFF-ON-OFF-OFF |
| 14 | **IUIUo** – for AGM lead-acid batteries (Discover AGM) | ON-OFF-OFF-OFF |
| 15 | **IUIo dV/dT** – for FLA batteries (Crown and others) | OFF-OFF-OFF-OFF |

FLA = flooded lead acid (wet)
LFP = lithium iron phosphate (LiFePO4)
AGM = absorbent glass matt
GEL and nanoGEL = silica gel
SLI = starting, lighting and ignition (automotive)
SLA = sealed lead acid

| DIP5 | DIP6 | MAXIMUM CURRENT 36V | MAXIMUM CURRENT 48V |
|---|---|---|---|
| ON | ON | 25A | - |
| OFF | ON | 30A | - |
| ON | OFF | - | - |
| OFF | OFF | - | 22A |

| DIP7 | DIP8 | NOMINAL BATTERY VOLTAGE |
|---|---|---|
| ON | ON | - |
| OFF | ON | - |
| ON | OFF | *36V* |
| OFF | OFF | *48V* |

**IMPORTANT:**
This document should not be used to change charger settings unless you have experience and knowledge of battery types and battery charging or unless you have been trained by and/or supervised by a suitably knowledgeable and experienced person.

Incorrect settings can lead to shortened battery life, battery damage or safety issues.

Always verify the settings by restarting the charger before putting the charger into service.

Read the Operating Manual.

Firmware:
010-168-002

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