

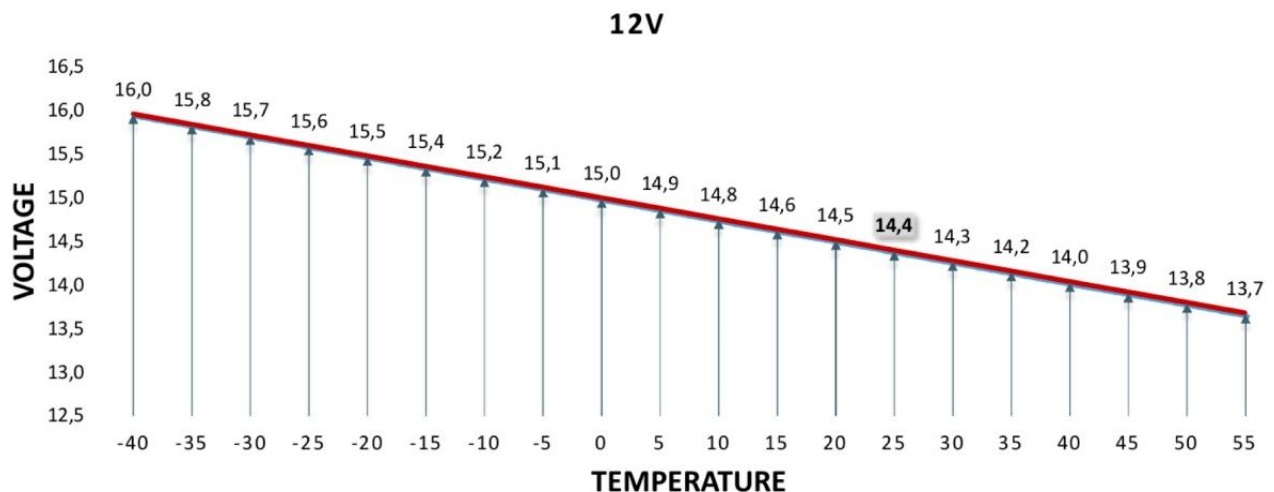
TROUBLE SHOOTING AND SERVICE

Yellow	Yellow	Red/green	Explanation
○	○	⊗	Low battery voltage or no battery connected
○	○	⊗	Battery temperature > 50°C
⊗	○	⊗	Time error (timeout), the battery is probably to big for the charger
○	○	●	Faulty connected battery polarity

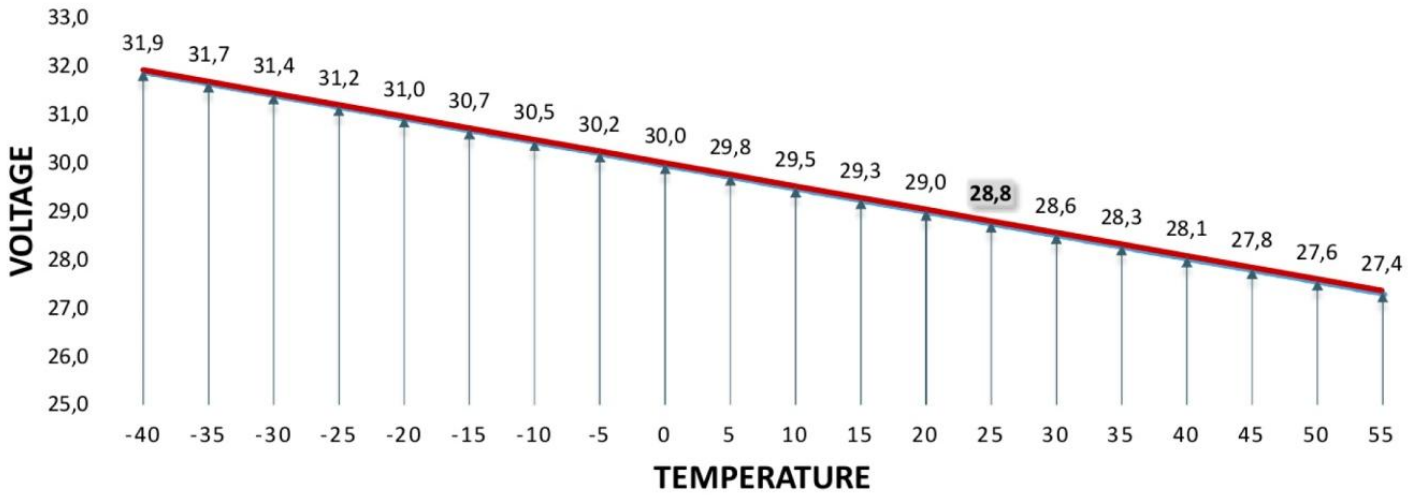
CHARGING INDICATORS

DIODE	EXPLANATION	EVENT
●	Yellow lower LED	The charging process will start with max power – I Phase. The current will drop as the battery is recharged. The charging time is determined by the battery size and the degree of discharge.
●	Yellow middle LED	When the threshold value (BR) is reached, the internal timer will start the U” phase of the charging process. The U2 phase keeps the charger in the higher charging voltage (14,4V/28,8V) in 4 hours. This ensures recharge and equalize the charge in all battery cells. This action also prevents sulfating of the battery.
●	Green LED	Maintenance charge, the voltage drops to 13,7V (27,5V). This loading phase keeps the battery fully charged and the charger can be left switched on in this position over time. Possible parallel load or consumption is supplied from the charger and the battery is kept fully charged. The battery charger can provide full power in this phase.

The charger is equipped with a temperature measurement device. The charging voltage level will adopt to the correct value according to the ambient temperature. The compensation is 0.2V / 10 degrees (default 25 degrees)



24V



TYPES, CELLS & RATED CAPACITY

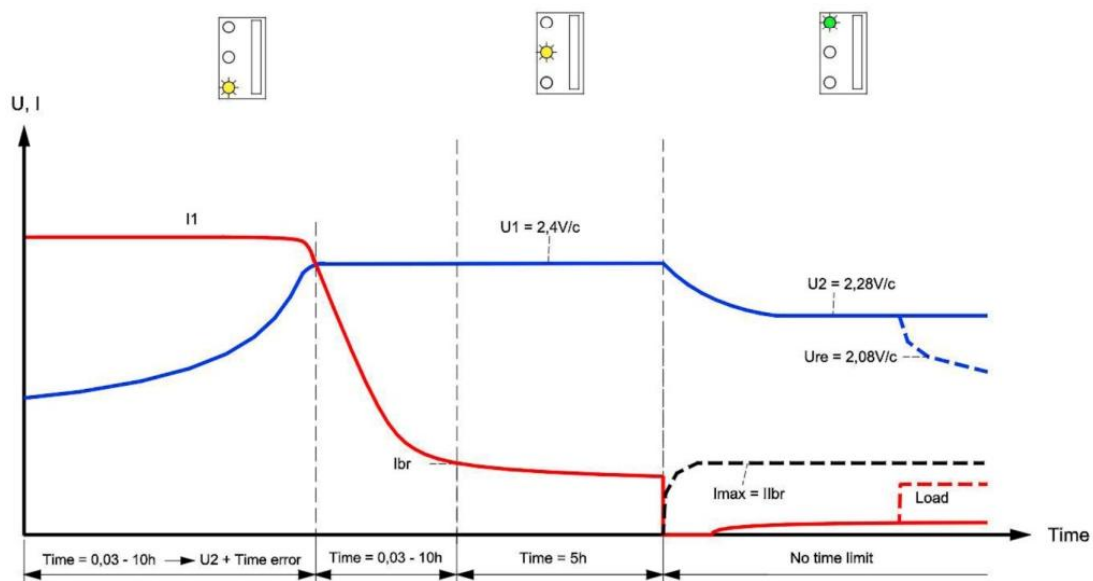
CHARGER	BATTERY TYPE	NUMBER OF CELLS	RATED CAPACITY
chAmp 12/17	Lead acid batteries	6	50-220Ah
chAmp 24/12	Lead acid batteries	12	40-200Ah
chAmp 24/8	Lead acid batteries	12	30-180Ah
champ 24/10	Lead acid batteries	12	35-200Ah
chAmp 12/30	Lead acid batteries	6	100-400Ah
chAmp 24/20	Lead acid batteries	12	80-300Ah

CHARGING CURVES

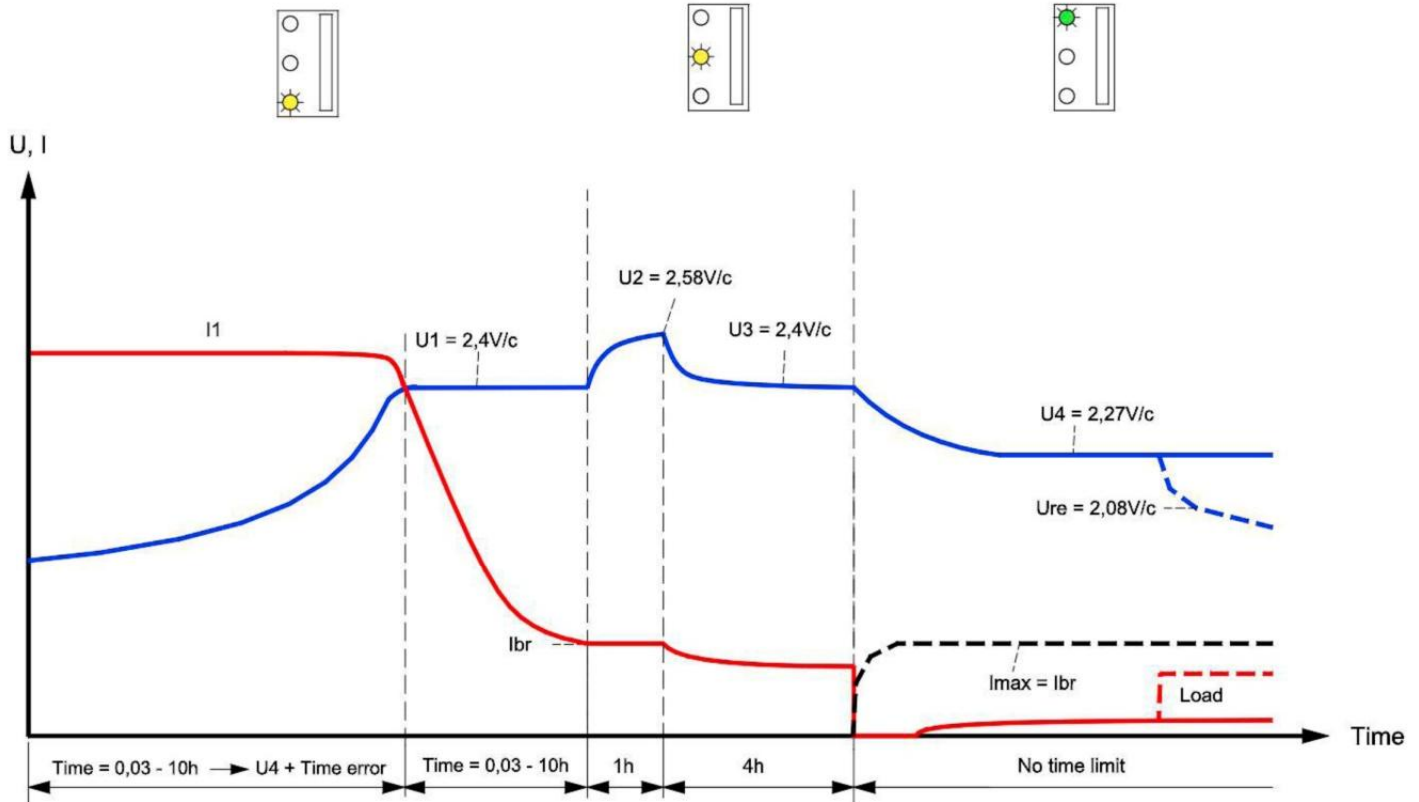
The chAmp Charger is designed for charging open- and valve-regulated batteries of different sizes. If Primepower AB is informed of the battery capacity and type the charger is delivered correctly programmed.

The charger is always delivered programmed for standard batteries if nothing else is mentioned to Primepower!

STANDARD BATTERIES (STD)



GEL/AGM BATTERIES



TRACTIONARY BATTERIES

