

FILON FUTUR

CHARGING SYSTEMS HIGH-FREQUENCY TECHNOLOGY



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STATE OF THE ART CHARGING SYSTEMS OF THE HIGHEST QUALITY



	S	M	L	XL
Charging voltage	12 V or 24 V	12 V, 24 V or 36 V	24 V, 36 V, 48 V or 80 V	24 V, 36 V, 48 V or 80 V
max. rated output	400 W	1500 W	3500 W	11 kW

- The new Filon Futur comprehensive charger program offers solutions for any application
- Universal and flexible implementation
- Individual charging programs for any battery type
- The most simple handling and application

FILON FUTUR charging systems offer many extras and additional options, e.g.:

- **ConVision** – the compact mobile service package, consists of service device and software
- **IEB-Curve** – the patented charge characteristic for dynamic and smooth charging, independent of battery type, age or charge status
- **Display** – for detailed indication and analysis of charge status and program
- **Pulse Charge** – ionic electrolyte circulation for reducing charge time for up to 2h and also for very soft and energy saving charges
- **EUW** – electrolyte circulation for reducing charge time for up to 2,5 h
- **Onboard** – individual implementations (incl. Drive off protection etc.)
- **Temperature compensation** – temperature led charging, e.g. for cold store applications
- Other extras on request

Suitable batterie types:

- Low-maintenance wet-cell batteries (PzS, PzB, GiS), charging time 5-15 h
- Low-maintenance batteries (PzV, GiV), charge time 11-14h
- Other battery types can be programmed on request

The advantages of FILON FUTUR charging systems at a glance

- **Very robust und service-friendly construction**
State of the art power and control electronics combined with established IEB Know How guarantee the highest levels of reliability, safety and malfunction protection
- **Very light**
The weight reduction by up to a factor of 3 compared with conventional charging devices results from a triple increase of performance density from ~ 40 W/kg to ~120 W/kg
- **Very small**
due to a 6-fold volume reduction compared with 50 Hz technology thanks to a near 6-fold increase in performance density from ~ 20 kW/m³ to ~120 kW/m³
- **Cost saving**
Efficiency of > 90 % and a power factor (cos(φ)) of ~ 1 reduces energy consumption and costs compared to 50 Hz technology by up to 20 %.
In addition, costly investment in equipment for power-factor correction is not required
- **Increase in battery service life**
Unnecessary and damaging battery warming during charging is prevented by the low charging current ripple content (< 1%)

Guaranteed quality

IEB HF charging systems are certified by the German VDE and fulfil EN standards for EMC and electrical safety.

The IEB company is certified to DIN EN ISO 9001:2000.