

# ELECTRO 3-HF

**Single phase multi-curve chargers  
for all types of drive batteries (Lead-acid, Sealed...).  
Charging curves IU1a as per standard DIN 41773  
for normal charge (10 to 14 h) or fast charge (7 to 8 h)**

## **ELECTRO 3-HF is simple.**

- Automatic starting of the charge on connection of the battery.
- High-frequency switching charger, fully electronic requiring no maintenance.
- Display of each stage of charging via LED diodes (optional digital display)
- One common basic module for the entire product range.
- A single control board for all models.

## **ELECTRO 3-HF is comprehensive.**

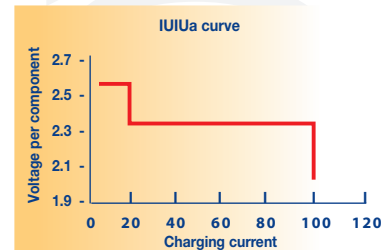
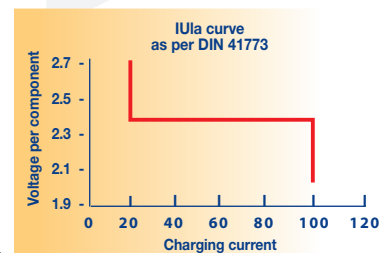
- Electronically-controlled charger insensitive to mains variations.
- Automatic compensation charging.
- Programmable equalisation charge.
- Charger delivered with 3 m of battery and mains cables.

## **ELECTRO 3-HF is advanced.**

- Stepped-current and constant voltage charging determined precisely according to actual battery capacity, for maximum optimisation of charge.
- Detection of end of charge by measurement of voltage stabilisation (dV/dt) characteristic of a perfect battery charge.
- Detection of charging incidents with indication by LED diode coding (in Electro 3-HF+ version: display on digital screen)
- Access to charging information and possible adjustments via BCC Nordyne (configuration and consultation unit) or via the menu button on Electro 3-HF+ models.
- Desulphatation of batteries in poor condition.

## **ELECTRO 3-HF is safe.**

- Charging cycle protected by safety timers.
- Full protection of charger against any inversion of battery polarity.
- Operation possible in slow mode, in case of module malfunction.\*



## **OPTION 3-HF+**

- Digital display of charging information.
- Access to history of 10 last charges.
- Adjustment of charging curve to actual operating conditions.
- Modification of charging parameters (battery type and capacity).

\*On all models except 20A calibres

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## ELECTRO 3-HF

Tension	Model	Battery capacity (Ah) Charging time					Desulphatation C5 mini
		Lead-acid					
		7 h	8 h	10 h	14 h		
24 V	M 24HF20	<100	125	165	250	80	
	M 24HF40	<200	250	330	500	160	
	M 24HF60	<300	375	500	750	240	
	M 24HF80	<400	500	670	1000	320	
36 V	M 36HF20	<100	125	165	250	160	
	M 36HF40	<200	250	330	500	240	
48 V	M 48HF20	<100	125	165	250	160	
	M 48HF40	<200	250	330	500	240	

Tension	Model	Battery capacity (Ah) Charging time					
		Etanche C		Etanche D		Etanche E	
		7.5 h	8.5 h	12 h	14 h	10 h	12 h
24 V	M 24HF20	<100	130	<130	180	<100	135
	M 24HF40	<130	260	<180	335	<135	270
	M 24HF60	<260	390	<335	500	<270	400
	M 24HF80	<390	520	<500	670	<400	535
36 V	M 36HF20	<100	130	<130	180	<100	135
	M 36HF40	<130	260	<180	335	<135	270
48 V	M 48HF20	<100	130	<130	180	<100	135
	M 48HF40	<130	260	<180	335	<135	270

Tension	Model	Dimensions (mm)			Mains current (A)	Weight (Kg)
		L	P	H		
24 V	M 24HF20	290	120	180	4.5	5.4
	M 24HF40	390	200	180	9	9.4
	M 24HF60	430	230	390	13.5	15
	M 24HF80	430	230	390	18	16.6
36 V	M 36HF20	390	200	180	9	9.4
	M 36HF40	430	230	390	18	16.6
48 V	M 48HF20	390	200	180	9	9.4
	M 48HF40	430	230	390	18	16.6

\* Other models on request



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