

# HFY & HFX

## SINGLE PHASE 230 Vac



### MAIN APPLICATIONS



### SUITABLE BATTERIES

Wet lead acid - PzS
GEL – AGM – VRLA – PzV
Other (on demand)

### MODELS AVAILABLE

	V	A	VAC	CODE	Lead acid (Ah)		Gel (Ah)	Iac
					7-8h	10-11-14h	12-14h	Current draw
HFY	12 - 24	5	1x230	HFYD 12-24/5	31-35	42-47-57	38-47	1,12
	12 - 24	10	1x230	HFYD 12-24/10	61-71	85-94-113	75-94	2,25
	12 - 24	15	1x230	HFYD 12-24/15	92-106	127-141-170	113-141	3,37
	12 - 24	20	1x230	HFYD 12-24/20	122-141	169-188-227	151-188	4,49
HFX	12 - 24	25	1x230	HFXD 12-24/25	153-176	212-235-283	189-235	5,58
	12 - 24	30	1x230	HFXD 12-24/30	183-212	254-282-340	226-282	6,70
	36	20	1x230	HFXD 36/20	122-141	169-188-227	151-188	6,70
	48	15	1x230	HFXD 48/15	92-106	127-141-170	113-141	6,70

## PRODUCT INTRO

**HFY** is the smallest HF charger suitable for on-board applications with LED visual interface.

**HFX** is the small-medium sized HF charger suitable for semi-traction & on-board applications with LED visual interface.

Easy built-in jumpers enable Voltage and Profile selection (12-24V and two profiles) PC connection for advanced setting, data-report and diagnostic.



## GENERAL CHARACTERISTICS

<b>Mains</b>	Vac 230V (1ph) +/-10% 50-60Hz - On/off switch (on HFX)
<b>Visual signalling</b>	Single LED (3 colours)
<b>Charger setting</b>	by switches: Voltage (12-24) and 2 charging profiles (Pb/Gel preset) by PC: extra editable charging profiles, capacity, output current
<b>Data memory</b>	Charger gives a Report of the last 25 cycles and key technical data by integrated PC port output
<b>Cool-down system</b>	Temperature-regulated fan speed (on HFY) Fan idle within 40°C internal components temperature.
<b>Efficiency</b>	>85%
<b>Operating temperature</b>	0° to +40°C
<b>Certifications</b>	CE in conformity with LV and EMC protocols

## SAFETY FEATURES

<b>Input protection</b>	Delay AC fuse
<b>Output protection</b>	by Relay (reverse polarity protection)
<b>Thermal Protection</b>	Forced derating on primary side Forced derating or safety cut off on the diodes
<b>Protection during battery disconnection</b>	Safety cut off by undervoltage

## OPTIONALS

<b>On board</b>	Inhibitor cable (Vac presence ready), Remote LED, Curly AC cable
<b>Stand alone/wall mounted</b>	Cable holder
<b>On board/stand alone/wall</b>	Additional extra coating

## MECHANICAL CHARACTERISTICS

<b>Dimension</b>	<b>HFY:</b> 121 (w) 75 (h) 230 (l) mm - <b>HFX:</b> 112 (w) 75 (h) 275 (l) mm
<b>Protection degree</b>	IP 21 (horizontal)
<b>Weight</b>	<b>HFY:</b> 2 kg - <b>HFX:</b> 3 kg
<b>Input cable</b>	2,3 m +/- 10% (length) complete with Schuko plug 16A
<b>Output cables</b>	2,3 m +/- 10% (length) - DC plug on demand