

# ELECTRO 1

**Single-phase chargers for lead-acid drive batteries.  
Charging curves as per standard DIN 41774.  
Curve type Wa - slow charge (10 h to 14 h)  
Curve type WoWa - fast charge (7 h to 8 h)**

## **ELECTRO 1 is simple.**

- Automatic starting of the charge on connection of the battery.
- Automatic charging fully controlled by microprocessor.
- Display of each stage of charging via LED diodes.
- One common electronic board for the entire product range.

## **ELECTRO 1 is comprehensive.**

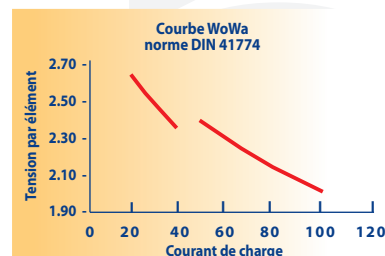
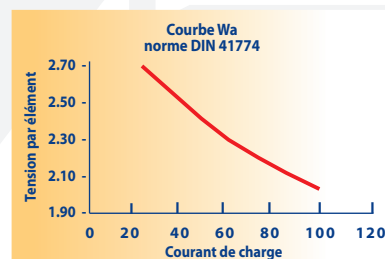
- Adaptation of charging curve to high or low mains power.
- Automatic compensation charging against self-discharge caused by long periods of non-use.
- Programmable equalisation charge.
- Charger delivered with 3 m of battery and mains cables and standard connector.\*

## **ELECTRO 1 is advanced.**

- Proportional charging to ensure an optimum charge of the battery regardless of its discharge rate.
- Additional charging time dependent on time required to reach 2.4 V/com.
- Limitation of boost charges to prevent unnecessary charging cycles.
- Data backup in case of mains cutoff.
- Diagnostic for charger operation via self-test.
- Troubleshooting assistance via codification of faults detected.
- Adaptation of charging profile to special operating conditions.

## **ELECTRO 1 is safe.**

- Charging cycle protected by safety timer.
- Protective thermal circuit breaker for power transformer.
- Ultra-fast protective fuse for battery.
- Pause button for battery disconnection in total safety .



**Housing dimensions  
(LxPxH)**  
**Cabinet T1**  
235 x 205 x 370 mm  
**Cabinet T2**  
315 x 295 x 540 mm  
**Cabinet T3**  
430 x 335 x 670 mm

\*On the models T1 and T2

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## ELECTRO 1

### Slow charge - Single-phase power supply 230 V

Voltage	Model	Battery capacity (Ah)		Mains current (A)	Weight (Kg)	Type of housing
		Charging time 10 h	14 h			
12 V	M 12 S 12	70	100	0,9	10	T1
	M 12 S 18	105	150	1,5	11	T1
	M 12 S 24	140	200	2	12	T1
	M 12 S 30	175	250	2,5	13	T1
	M 12 S 40	240	350	3,5	16	T1
24 V	M 12 S 50	310	450	4	26	T2
	M 24 S 12	70	100	2	11	T1
	M 24 S 18	105	150	3	12	T1
	M 24 S 24	140	200	4	13	T1
	M 24 S 30	175	250	5	14	T1
	M 24 S 40	240	350	6,5	17	T1
	M 24 S 50	310	450	9	27	T2
	M 24 S 65	415	600	11	30	T2
36 V	M 24 S 90	555	800	14	46	T3
	M 24 S 110	690	1000	17	50	T3
	M 24 S 140	865	1250	21	57	T3
	M 36 S 24	140	200	5,5	16	T1
	M 36 S 30	175	250	7,5	24	T2
	M 36 S 40	240	350	10	27	T2
48 V	M 36 S 50	310	450	11,5	41	T2
	M 36 S 65	415	600	15	47	T3
	M 36 S 90	555	800	21	51	T3
	M 48 S 24	140	200	8	20	T1
	M 48 S 30	175	250	9,5	27	T2
48 V	M 48 S 40	240	350	12,5	30	T2
	M 48 S 50	310	450	15,5	43	T3
	M 48 S 65	415	600	21	49	T3
	M 48 S 90	555	800	28	53	T3

### Fast charge - Single-phase power supply 230 V

Voltage	Model	Battery capacity (Ah)		Mains current (A)	Weight (Kg)	Type of housing
		Charging time 7 h	8 h			
12 V	M 12 D 65	230	310	5,5	29	T2
	M 12 D 90	310	400	7,5	45	T3
24 V	M 24 D 40	140	175	6,5	17	T1
	M 24 D 50	175	230	9	27	T2
	M 24 D 65	230	310	11	30	T2
	M 24 D 90	310	400	14	46	T3
36 V	M 24 D 110	400	500	17	50	T3
	M 36 D 65	230	310	15	47	T3
	M 36 D 90	310	400	21	51	T3
48 V	M 48 D 40	140	175	12,5	30	T2
	M 48 D 50	175	230	15,5	43	T3
	M 48 D 65	230	310	21	49	T3
	M 48 D 90	310	400	28	53	T3

Les intensités nominales sont indiquées pour une tension de 2 Volts par élément.



**NORDYNE**  
L'ÉNERGIE MAÎTRISÉE