

ELECTRO TTH

**Three-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 14h) or fast charge (7 to 8h)**



ELECTRO TTH is simple.

- Automatic starting of the charge on connection of the battery.
- Thyristor-regulated charging, fully controlled by microprocessor.
- Display of each stage of charging via LED diodes and display.
- One model of charger for several types of battery.
- One common electronic unit for the entire product range.

ELECTRO TTH is comprehensive.

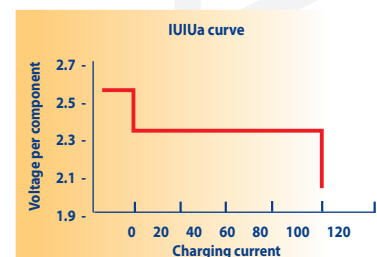
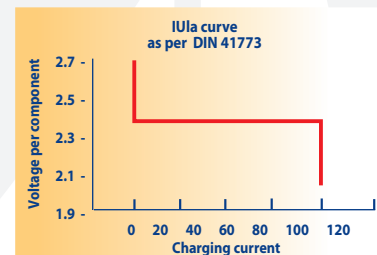
- Two-voltage chargers 230V/400V.
- Electronically-regulated chargers insensitive to variations in mains power.
- Automatic compensation charging against self-discharge caused by long periods of non-use.
- Programmable equalisation charge.
- Display on alphanumeric screen of main charging characteristics (Number of ampere-hours returned to the battery, end-of-charge voltage, charging time, possible faults...)
- Charger delivered with 3 m of battery and mains cables.

ELECTRO TTH is smart.

- Stepped-current and constant voltage charging with end-of-charge detection by measurement of voltage stabilisation at end of charge (dV/dt) characteristic of optimum battery charge.
- Correction of voltage drop in cables by measurement of voltage at battery terminals via auxiliary wire.
- Detection of charging incidents with indication by LED diodes and on alphanumeric screen.
- Desulphatation of batteries in poor condition.

ELECTRO TTH is safe.

- Charging cycle protected by safety timers.
- Protective thermal circuit breaker for power transformer.
- Ultra-fast protective fuse for battery.



**Housing dimensions
(L x l x h)**
Cabinet A2
650 x 395 x 825 mm
Cabinet A3
805 x 465 x 1005 mm

OPTIONS:

- Electrolyte mixing pump.
- Offset LEDs.
- Offset emergency stop and equalisation.
- Safety Buzzer.
- Correction of charging curve according to battery temperature.
- Battery recognition unit.
- Communications board for connection to a central supervisor.

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Three-phase power supply 230 V/400 V

Voltage	Model	Battery capacity (Ah) / Charging time				Mains current (A)		Weight (Kg)	Type of housing
		7 h	8 h	10 h	14 h	230V	400V		
24 V	TTH 24 / 50	250	320	400	550	6	4	60	A2
	TTH 24 / 60	320	390	480	660	6	4	65	A2
	TTH 24 / 70	390	450	600	775	7	4	70	A2
	TTH 24 / 80	450	520	700	890	8	5	85	A2
	TTH 24 / 100	520	660	800	1100	9	6	110	A2
	TTH 24 / 125	660	780	1000	1390	12	7	115	A2
	TTH 24 / 140	780	890	1150	1550	13	8	120	A2
	TTH 24 / 160	890	1050			15	9	130	A3
TTH 24 / 200	1050	1300			16	11	140	A3	
36 V	TTH 36 / 50	250	320	400	550	7	4	70	A2
	TTH 36 / 60	320	390	480	660	9	6	75	A2
	TTH 36 / 70	390	450	600	775	10	6	80	A2
	TTH 36 / 80	450	520	700	890	12	7	90	A2
	TTH 36 / 100	520	660	800	1100	14	8	105	A2
	TTH 36 / 125	660	780	1000	1390	17	10	115	A2
	TTH 36 / 140	780	890	1150	1550	19	11	150	A2
	TTH 36 / 160	890	1050			22	13	170	A3
TTH 36 / 200	1050	1300			27	16	190	A3	
48 V	TTH 48 / 50	250	320	400	550	9	6	80	A2
	TTH 48 / 60	320	390	480	660	12	7	85	A2
	TTH 48 / 70	390	450	600	775	13	8	90	A2
	TTH 48 / 80	450	520	700	890	15	9	100	A2
	TTH 48 / 100	520	660	800	1100	20	12	115	A2
	TTH 48 / 125	660	780	1000	1390	23	14	125	A2
	TTH 48 / 140	780	890	1150	1550	26	15	160	A3
	TTH 48 / 160	890	1050			29	17	180	A3
TTH 48 / 200	1050	1300			36	21	200	A3	
72 V	TTH 72 / 50	250	320	400	550	14	8	105	A2
	TTH 72 / 60	320	390	480	660	17	10	110	A2
	TTH 72 / 70	390	450	600	775	18	11	112	A2
	TTH 72 / 80	450	520	700	890	22	13	115	A2
	TTH 72 / 100	520	660	800	1100	27	16	120	A2
	TTH 72 / 125	660	780	1000	1390	34	20	210	A3
	TTH 72 / 140	780	890	1150	1550	38	22	215	A3
	TTH 72 / 160	890	1050			44	25	225	A3
TTH 72 / 200	1050	1300			54	32	230	A3	
80 V	TTH 80 / 50	250	320	400	550	15	9	115	A2
	TTH 80 / 60	320	390	480	660	18	11	120	A2
	TTH 80 / 70	390	450	600	775	22	13	122	A2
	TTH 80 / 80	450	520	700	890	24	14	125	A2
	TTH 80 / 100	520	660	800	1100	30	18	130	A3
	TTH 80 / 125	660	780	1000	1390	38	22	220	A3
	TTH 80 / 140	780	890	1150	1550	42	24	225	A3
	TTH 80 / 160	890	1050			48	28	235	A3
TTH 80 / 200	1050	1300			60	35	240	A3	



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