

INDUSTRIAL CHARGERS



AQ-TRON FAST CHARGER 8 HOURS WoWa

	Ref.	Tension (V)	Current (A)	Current 400Vae (A)	Battery Capacity Average C5 (Ah)	Power (KVA)
24 V	AQ24T60FAST	24	60	3,3	300	2,25
	AQ24T80FAST	24	80	4,2	340	3
	AQ24T100FAST	24	100	5,3	450	3,75
	AQ24T120FAST	24	120	6,3	560	4,5
	AQ24T140FAST	24	140	7,4	675	5,25
	AQ24T160FAST	24	160	8,4	780	6
	AQ24T180FAST	24	180	9,4	890	6,75
36 V	AQ36T60FAST	36	60	4,8	300	3,75
	AQ36T80FAST	36	80	6,4	340	4,5
	AQ36T100FAST	36	100	7,8	450	5,62
	AQ36T120FAST	36	120	9,3	560	6,75
	AQ36T140FAST	36	140	10,9	675	7,87
	AQ36T160FAST	36	160	12,6	780	9
	AQ36T180FAST	36	180	14,1	890	10,12
40 V	AQ40T60FAST	40	60	5,2	300	3,75
	AQ40T80FAST	40	80	7,0	340	5
	AQ40T100FAST	40	100	8,8	450	6,25
48 V	AQ48T60FAST	48	60	6,3	300	4,5
	AQ48T80FAST	48	80	8,4	340	6
	AQ48T100FAST	48	100	10,4	450	7,5
	AQ48T120FAST	48	120	12,6	560	9
	AQ48T140FAST	48	140	14,6	675	10,5
	AQ48T160FAST	48	160	16,7	780	12
	AQ48T180FAST	48	180	18,8	890	13,5
72 V	AQ72T50FAST	72	50	8,2	250	5,85
	AQ72T60FAST	72	60	9,4	300	6,75
	AQ72T80FAST	72	80	12,6	340	9
	AQ72T100FAST	72	100	15,6	450	11,25
	AQ72T120FAST	72	120	18,8	560	13,50
	AQ72T140FAST	72	140	22,0	675	15,75
	AQ72T160FAST	72	160	25,0	780	18
80 V	AQ80T50FAST	80	50	9,1	250	6,5
	AQ80T60FAST	80	60	10,4	300	7,5
	AQ80T80FAST	80	80	13,8	340	10
	AQ80T100FAST	80	100	17,3	450	12,5
	AQ80T120FAST	80	120	21,7	560	15
	AQ80T140FAST	80	140	24,3	675	17,5
	AQ80T160FAST	80	160	27,7	780	20
	AQ80T180FAST	80	180	31,2	890	22,5
96 V	AQ96T80FAST	96	80	16,7	340	12
	AQ96T100FAST	96	100	21,0	450	15
	AQ96T120FAST	96	120	25,0	560	18
	AQ96T140FAST	96	140	29,2	675	21
	AQ96T160FAST	96	160	33,4	780	24



TECHNICAL SPECIFICATIONS

- Mains input 400Vac \pm 5% 50-60Hz
- Characteristics of charge current WoWa
- Clear of recognisable visualisation of charging level through 5mm Leds and display
- Microprocessor-controlled charging process
- Display and acoustic Safety timer
- Last 5 charge cycles saved in board memory
- Starting charge automatic or manual
- Suitable for rated battery voltages 24V-36V-48V-72V-80V-96V
- Maintenance charge
- Missing power supply phase signalling
- Intelligent charge
- Conformity to European normative CE-marking
- Weight: 40-90 Kg
- Dimensions: 360 x 500 x 900 mm



BATTERY CHARGERS

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RECOMMENDATIONS

Before buying a charger, next data must be determined:

a) CHARGE CYCLE

We advise you to consider your choice of the battery, and to examine all our chargers. Every model was designed for a specific application. Before you choose, check the next points:

- 1) Is the battery totally or partly discharged when it's connected to the charger?
- 2) How much time is there to charge the battery?
- 3) Do you need a charger which can charge batteries with different tension and capacity? Contact us!

b) TENSION OF THE CHARGER

The tension of the charger must be the same as that of the battery: 2.0V per cell.

c) CHARGE CURRENT

The charge current must be chosen in accordance with the battery capacity. With charge current, we mean the current which is given by the charger when the battery is at its nominal voltage (2.0V/cell). The current decreases to 50% when the battery tension rises up to 2,4V/cell and to 25% when 2.65V/cell is reached. For example: 48V - 100A / 57,6V - 50A / 63.6V - 25A.



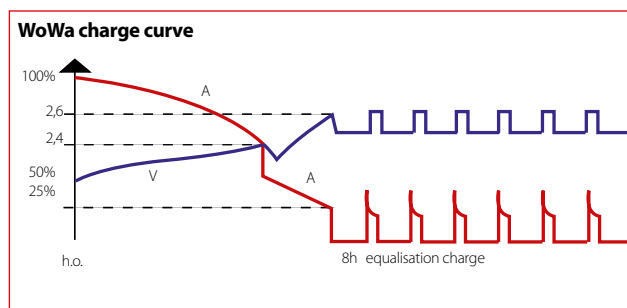
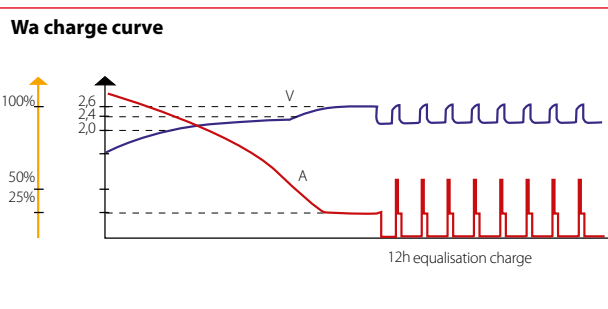
Wa and WoWa charge curve

Wa charge curve:

Consists in a principal charge phase and a final charge phase. The charger starts to charge with a maximal current (100 %), during the charge, the battery tension increases and the charge current decreases correspondingly. When 2.4V/cell is reached, the charge current is decreased to 50 % and the principal charge phase is ended. During the final charge phase, the charge current decreases to 25 %, and a battery tension of 2.65V/cell is reached (= full battery tension).

WoWa charge curve:

Equals the Wa charge curve, but the current in the principal phase is 20 to 40 % higher than by the Wa charge curve. The final charge phase is identical with the Wa charge curve.



CAPACITY TABLE FOR BATTERY CHARGERS

BATTERY DATA		POWER REQUIRED	MAXIMUM CURRENT AND FUSES					
VOLT V	AMP A		MAIN POWER KVA	SINGLE -PHASE		THREE PHASE		
		VOLT 230		FUSE aM	VOLT 230	FUSE aM	VOLT 400	FUSE aM
24	25	0.90	3.9	6,3				
24	30	1.08	4.7	6,3				
24	40	1.44	6.3	8	3.6	6	2.1	4
24	60	2.16	9.4	12	5.4	8	3.1	4
24	80	2.88	12.5	16	7.2	12	4.2	6
24	100	3.60	15.7	20	9	16	5.2	8
24	120	4.32			10.9	20	6.2	10
24	140	5.04			12.7	20	7.3	12
36	30	1.62	7	12	4.1	6	2.3	4
36	40	2.16	9.4	16	5.4	8	3.1	4
36	60	3.24	14.1	20	8.1	12	4.7	8
36	80	4.32	18.8	32	10.9	16	6.2	10
36	100	5.40	23.5	40	13.6	20	7.8	12
36	120	6.48	28.2	50	16.3	25	9.4	12
36	140	7.56			19	32	10.9	16
48	40	2.88	12.5	20	7.2	12	4.2	6
48	60	4.32	18.8	32	10.9	16	6.2	10
48	80	5.76	25	40	14.5	25	8.3	12
48	100	7.20			18.1	32	10.4	16
48	120	8.64			21.7	35	12.5	20
48	140	10.08			25.3	40	14.6	25
48	160	11.52					16.6	25
72	60	6.48			16.3	25	9.4	16
72	80	8.64			21.7	35	12.5	20
72	100	10.80			27.1	40	15.6	25
72	120	12.96					18.7	32
72	140	15.12					21.8	40
72	160	17.26					25	40
80	60	7.20			18.1	32	10.4	16
80	80	9.60			24.1	40	13.9	25
80	100	12.00			30.2	50	17.3	25
80	120	14.40					20.8	32
80	140	16.80					24.3	40
80	160	19.20					27.7	50
80	180	21.60					31.2	50
96	60	8.64			21.7	35	12.5	20
96	80	11.52			29	50	16.6	25
96	100	14.40					20.8	40
96	120	17.28					25	40
96	140	20.16					29.1	50
96	160	23.04					33.3	50
96	180	25.92					37.5	63



BATTERY CHARGERS

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UNIVERSAL TRANSFORMATION KIT



▶ BAT/19591

The transformation kit KT-22 is a set which can replace the electronic part on every 12-hour charger, also of other brands. The kit is used to replace the electronic part of chargers which is damaged or irreparable, or for chargers of which substitute parts can't be found anymore.

The kit uses the existent capacity circuit of the charger, namely the transformer, the diode bridge and the contactor.

- Voltage: 12V to 96V adjustable at the card itself!
- Card with equalisation and maintenance charge!
- Simple set-up!
- Battery history
- Single battery report
- Battery overview report
- Battery management report

Size front plate:
Length 200 x Height 150 mm



*For complete information: ask for our PowerPoint Presentation.