

Data on chargers used by LOGITRANS

12 V Charger

	Logitrans 12V 11A	Built in 12V 11A	Mascot 12V 10A
No.	986080	986082	986045
Type designation	Type 95	Type 296	9540/12
Type	Rectifier	Rectifier	Switch-mode
Adjusted charging voltage	15,2+/-0,1	15,2+/-0,1	14,2
Max. charging current 1 at 12 V battery voltage	11A at 230 VAC	11A at 230 VAC	10A at 12V
Max. charging current 2 at 13 V battery voltage		6,5A at 230 VAC	
LxBxH	255x165x130	255x120x130	192x109x53,5
Weight	5.25 kg	4.7 kg	0.93 kg
Connecting voltage	230 VAC +6%,-10%	230 VAC +6%,-10%	198-264 VAC
Connecting Hz	50..60 Hz	50..60 Hz	47..63 Hz
Power use	180 W/ 210VA	180 W/ 210VA	
Temperature area	-10 gr.C +40 gr.C	-10 gr.C +40 gr.C	-25 gr.C +40 gr.C
Notes concer. charging	See note 1	See note 1	See note 1
Safety/fuse	T2.5A	T2.5A	
Approvements	CE, D	CE	CE, D, N, S, FI
Thightness	IP20	IP20	

Note 1: The charger continues trickle charging with low curren after obtaining max. charging voltage.

Note 2: The charger disconnects when obtaining max. charging voltage. The charger connects automatically if the voltage falls.

Note 3: To eliminate the phenomenon of sulfatation and equalise the celles, the equalising and desulfatation charge starts automatically 15 minutes after the end of a complete charge. This charge stops when battery voltage becomes stable (variation of less than 60mV / hour).

24 V Charger

	I.E.S. 24V 20A Built in	I.E.S. 24V 30A Built in	I.E.S. 24V 30A	Mascot 24V 10A
No.	986051	986067	986051	986053
Manufacture	I.E.S.,Frankrig	I.E.S.,Frankrig	I.E.S.,Frankrig	Mascot, Norge
Type designation	STD	STD	STD	9041/24
Type	Switch-mode	Switch-mode	Switch-mode	Switch-mode
Adjusted charging voltage	29V	29V	29V	28,2V
Max. charging current	20A at 230 VAC	20A at 230 VAC	20A at 230 VAC	10A
LxBxH	233x99x72	233x99x72	233x99x72	148x210x58
Weight	2.3 kg	2.3 kg	2.3 kg	1.55 kg
Connection voltage	230V +10/-15%	230V +10/-15%	230V +10/-15%	198-264 VAC
Connection Hz	50..60 Hz	50..60 Hz	50..60 Hz	47..63 Hz
Effect use	720 W	720 W	720 W	
Temp. area	0 gr.C +40 gr.C	0 gr.C +40 gr.C	0 gr.C +40 gr.C	-25 gr.C +30 gr.C
Notes concer. charging	See note 1	See note 3	See note 3	See note 2
Safety/fuse	Auto	Auto	Auto	
Approvements	CE	CE	CE	CE, D, N, S, FI
Thightness	IP 20	IP 20	IP20	

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	Logitrans	Built-in	Mascot
	12V 11A	12V 11A	12V 10A
	986080	986082	986045
Semitrak 12V 60Ah/5h 986034	A	A	B
Semitrak 12V 105Ah/5h 986036	A*	A*	B*
Tubular cell 12V 56Ah/5h 986024	B	B	B
Tubular cell 12V 113Ah/5h 986014			B*

	I.E.S	I.E.S	I.E.S	Mascot
	24V 20A Built in	24V 30A Built in	24V 30A	24V 10A
	986051	986067	986048	986053
Semitrak 2x12V 60Ah/5h 2 x 986034				B
Tubular cell 2x12V 56Ah/5h 2 x 986036				B
Tubular cell 24V 130Ah/5h 986200	A	A	A	
Tubular cell 24V 160Ah/5h 986201		A	A	

A: Recommended by LOGITRANS

B: Can be used

*: Will result in longer charging time because of the capacity of the charger (between 8-16 hours at 80% discharged battery)
Normal charging time: between 6-12 hours at 80% discharged battery.