

Switchmode Chargers

Lead Acid

Conforms to IEC 60335 and IEC 60601-1 (for PP 8, MPP 15/30)

Applications

- Starter batteries
- Cleaning machines
- Stair lifts/patient lifts
- Electrical vehicles
- Mobile lighting
- Mobile measuring technology
- Professional photographic technology

Characteristics

- Low leakage current $\leq 10 \mu\text{A}$ (except DT 80 Pb)
- Medical standard EN 60601-1 (except DT 80 Pb)
- EMC conformity
- Low standby power
- Constant voltage
- Light weight, compact size
- LED charging display

Technical data

Input voltage

230 V AC (DT 80 Pb),
100 to 240 V AC (PP 8, MPP 15/30)
130 mA (PP 8), 250 mA (MPP 15),
500 mA (MPP 30), 600 mA (DT 80 Pb)

Input current

50 to 60 Hz

Frequency

Efficiency

EMC

75 % typ. at full load

Conforms to EN 55011, EN 55014,
EN 55022/B, FCC 47 part 15, EN 61000-3-2,
EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,
EN 61000-4-5, EN 61000-4-6, EN 61000-4-11

Environmental specification

Operating temp.

0 to 40°C at maximum load

Storage temp.

-40 to 70°C

Humidity

5 % to 95 % non condensing

Input transient susceptibility

Safety specification

Standards

Complies with IEC 61000 requirements

Fulfils class II SELV for the following applications: IEC 60601-1, UL 60601-1 (PP 8, MPP 15/30), IEC 60335-2-29 (DT 80 Pb), VDE, CE label

Reliability specification

MTBF calculation

200,000 hours at maximum load levels and an ambient temperature of 25°C (in accordance with MIL-HDBK-217)

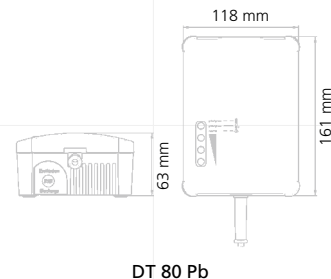
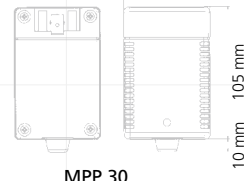
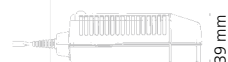
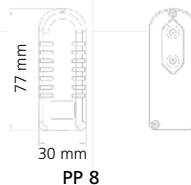
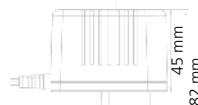
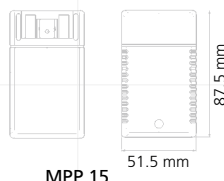
Mechanical specification

Weight approx.

700 g (DT 80 Pb), 72 g (PP 8), 130 g (MPP 15), 278 g (MPP 30)

Plug connector

AC input: EURO, UK, USA/Japan (PP 8*), Mains plugs are available for the following regions: EURO, UK, USA/Japan, Australia, IEC (MPP 15/30) 2 Pin IEC 320, C8 socket (DT 80 Pb)
DC output: Universal output system (optionally customer specific) (PP 8, MPP 15/30), pole clamps (DT 80 Pb)



Reverse polarity and short circuit:

Protected against reverse polarity (only MPP 15/30 and DT 80 Pb), and continuously short circuit proof.

Output data

Voltage	Current	No. of cells	Capacity	Characteristics	Housing	Order No.
6 V	900 mA	3	2.4 – 16.0 Ah	IU0U	PP 8 EU	1890125
6 V	900 mA	3	2.4 – 16.0 Ah	IU0U	PP 8 UK	1824106
6 V	900 mA	3	2.4 – 16.0 Ah	IU0U	PP 8 US	1824107
6 V	1600 mA	3	4.8 – 32.0 Ah	IU0U	MPP 15	1890126
6 V	3000 mA	3	9.0 – 60.0 Ah	IU0U	MPP 30	1890129
12 V	500 mA	6	1.5 – 10.0 Ah	IU0U	PP 8 EU	1824396
12 V	500 mA	6	1.5 – 10.0 Ah	IU0U	PP 8 US	1825090
12 V	1000 mA	6	3.0 – 20.0 Ah	IU0U	MPP 15	1890240
12 V	2000 mA	6	6.0 – 40.0 Ah	IU0U	MPP 30	1890243
12 V	5000 mA	6	25.0 – 40.0 Ah	IU0U	DT 80 Pb EU/UK	1882566
24 V	500 mA	12	1.5 – 10.0 Ah	IU0U	MPP 15	1890241
24 V	1000 mA	12	3.0 – 20.0 Ah	IU0U	MPP 30	1890130
24 V	1500 mA	12	4.5 – 30.0 Ah	IU0U	MPP 30	1890222
24 V	2000 mA	12	10.0 – 16.0 Ah	IU0U	DT 80 Pb EU/UK	1882567

* Australia version available for OEM quantities