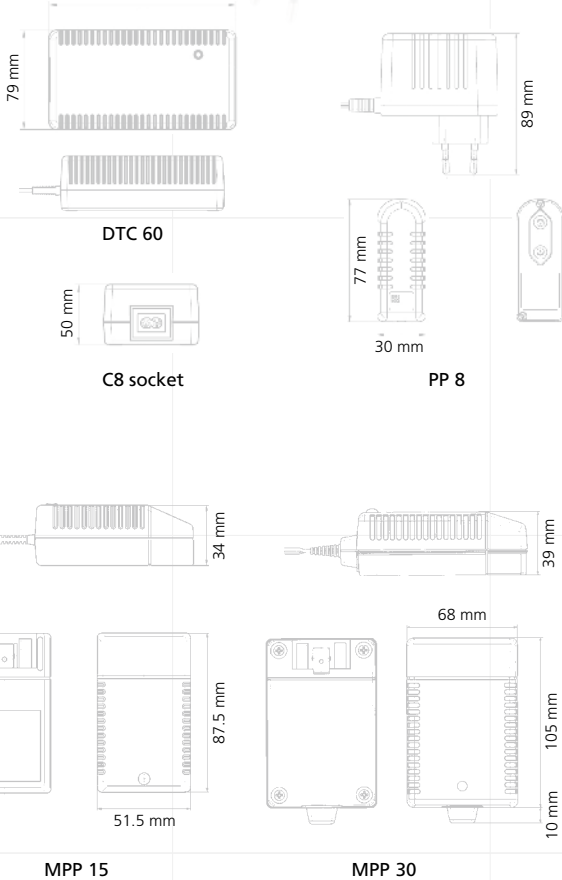


Switchmode Chargers NiCd/NiMH

Conforms to IEC 60335 and IEC 60601-1 (MPP 15)



Applications

- Diving lights
- Electrical vehicles
- Cleaning machines
- Stair lifts/patient lifts
- Medical technology
- Mobile lighting

Characteristics

- Interchangeable primary adapters (MPP 15/30)
- Low standby power
- EMC conformity
- Constant Current
- -delta-U or gradient recording of the temperature ($\Delta T/\Delta t$)

Technical data

Input voltage
Input current
Frequency
Efficiency
EMC

230 V AC (DTC 60), 100 – 240 V AC (PP 8, MPP 15/30)
0,45 A (DTC 60), 0,2 A (PP 8), 0,28 A (MPP 15), 0,4 A (MPP 30)
50 to 60 Hz
80 % typ. at full load
Conforms to EN 55011, EN 55014, EN 55022/B,
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

Output current tolerance $\pm 10\%$

Environmental specification

Operating temp. 0 to 40°C at maximum load
Storage temp. -25 to 70°C (DTC 60), -40 to 70°C (PP 8, MPP 15/30)
Humidity 5% to 95% non condensing
Input transient susceptibility Complies with IEC 61000 requirements

Safety specification Standards

Fulfils class II SELV for the following applications:
IEC 60335-2-29, VDE, CE label, UL 1310
IEC 60601-1 (MPP 15)

Reliability specification

MTBF calculation 100,000 hours at maximum load levels and an ambient temperature of 25°C (accordance with MIL-HDBK-217)

Mechanical specification

Weight approx. 85 g (PP 8), 140 g (MPP 15), 278 g (MPP 30), 450 g (DTC 60)
Plug connector AC-input EURO, UK, USA/Japan (PP 8), FRIWO exchangeable mains plug system: EURO, UK, USA/Japan, Australia, IEC (MPP 15/30)
DC-output 2 Pin IEC 320, C8 socket (DTC 60) Universal output plug system (optionally customer specific) (PP 8/MPP 15/30) 3-cond. lead, ends stripped and tinned (temperature control) (MPP 15, DTC 60)

Highlight

Fulfils the IEC 60601-1 Class BF (MPP 15)
Protected against reverse polarity and continuously short circuit proof (MPP 15, DTC 60)

Output data				Switch-off criteria			Worldwide	EURO	USA/Japan	UK
Capacity	Current	No. of cells	Housing	Time	T. grad	-delta-U	Order No.	Order No.	Order No.	Order No.
1.0 – 20.0 Ah	2600 mA	4 – 12	DTC 60	•	•	•		1890704		1890704
1.0 – 20.0 Ah	1800 mA	10 – 20	DTC 60	•	•	•		1890132		1890132
3.5 – 7.0 Ah	950 mA	10 – 20	MPP 30	•	•	•	1811894			
2.8 – 7.0 Ah	1000 mA	10 – 12	MPP 30	•	•	•	1812609			
2.5 – 4.5 Ah	1400 mA	8 – 12	MPP 30	•	•	•	1880408			
2.5 – 10.0 Ah	2000 mA	5 – 6	MPP 30	•	•	•	1818681			
1.0 – 10.0 Ah	800 mA	4 – 10	MPP 15	•	•	•	1826002			
1.0 – 10.0 Ah	800 mA	4 – 10	MPP 15	•	•	•	1890127			
0.8 – 1.6 Ah	550 mA	5 – 8	PP 8	•	•	•		1824466	1824467	1824468