

# Data Sheet – EFOY COMFORT-Fuel Cells



Fuel Cells	EFOY COMFORT 80	EFOY COMFORT 140	EFOY COMFORT 210
Charging capacity per day	80 Ah/day	144 Ah/day	210 Ah/day
Output power <sup>1</sup>	40 W	72 W	105 W
Expected output power after 3000 hours <sup>1</sup>	30 W	60 W	85 W
Nominal voltage	12 V	12 V	12 V
Charging current at 12 V	3.3 A	6.0 A	8.75 A
Recommended battery capacity <sup>2</sup> at 12 V	40-160 Ah	60-250 Ah	80-350 Ah
Recommended for energy requirement/day of	up to 60 Ah/day	up to 115 Ah/day	up to 180 Ah/day
Weight	7.1 kg	7.8 kg	8.5 kg
Switch-on voltage <sup>3</sup>	< 12.3 V		
Switch-off voltage <sup>3</sup>	> 14.2 V		
Switch-off current <sup>3</sup>	2 A	2 A	4 A
Switch-on delay <sup>3</sup>	60 s		
Required start-up voltage at 12 V	>9 V		
Noise level (at 7m distance)	25 dB(A)		
Nominal consumption <sup>4</sup>	0.9 l/kWh		
Quiescent current draw	15 mA		
Operating temperature	-20 °C to +40 °C		
Start-up temperature	+5 °C to +40 °C		
Storing temperature	+1 °C to +45 °C		
Recommended altitude	Up to 1500 m		
Dimensions (L x W x H)	443 x 202 x 288 mm		
Space requirement (L x W x H) incl. M10 Fuel Cartridge	Min.: 680 x 380 x 340 mm		
Inclination along the roll axis	Permanent: max. 35°; temporary (<10 min): max. 45°		
Inclination along the lateral axis	Permanent: max. 20°		
User-Interface	At the unit or via Operating Panel with text display		
Data-Interface	RJ-45 plug for accessories (e.g. Interface adapter)		
Electrical Interface	MNL-plug 4-pins (e.g. Tyco Electronics Universal Mate-N-Lok – Nr. 350779)		

<sup>1</sup> Output power varies by ±10 %, decreases with the operation hours.

<sup>2</sup> Depends on battery type and application - bigger batteries possible, if charging current sufficient (e.g. solar battery)

<sup>3</sup> Factory Setting - can be modified with Operating Panel (Expert menu) or Interface Adapter and PC

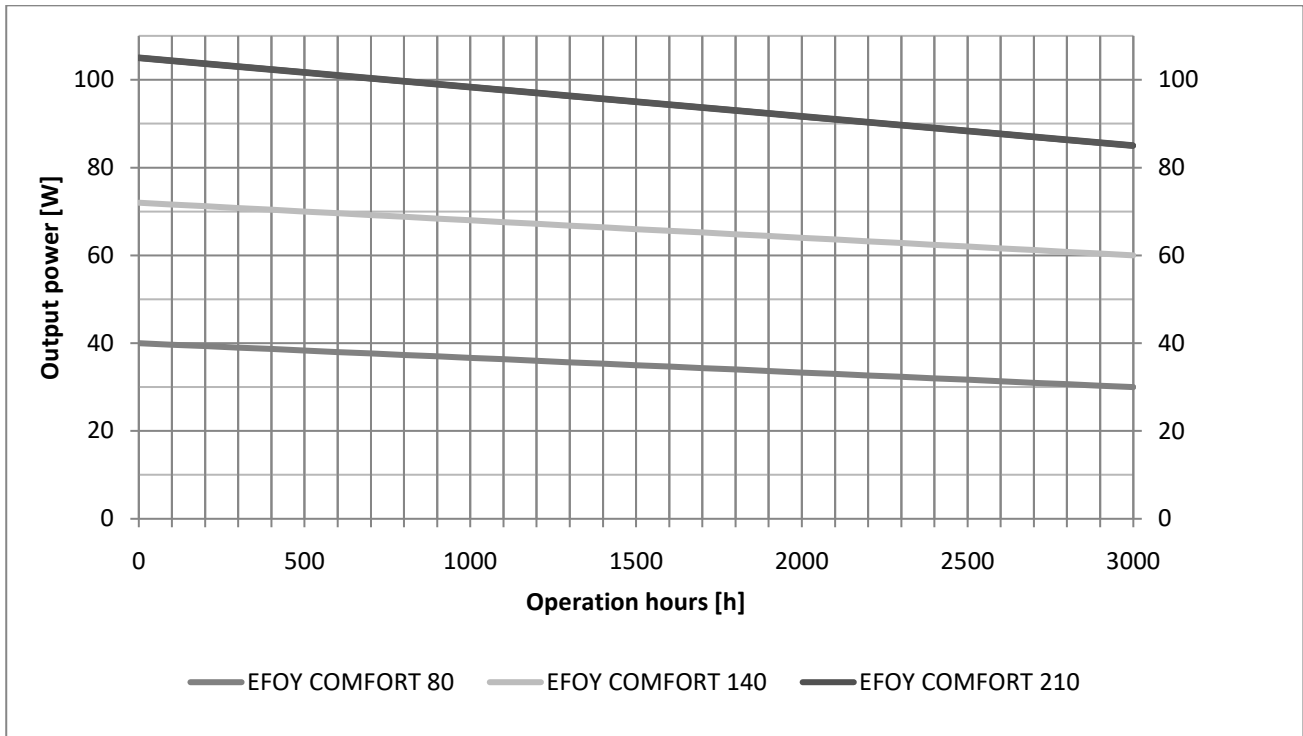
<sup>4</sup> Effective consumption depends on operating conditions

## Standard Accessory Set

<ul style="list-style-type: none"> <li>Operating panel White with cable</li> <li>Mounting plate with belt for EFOY COMFORT</li> <li>Charge line for battery connection</li> <li>Fuel cartridge holder with belt</li> </ul>	<ul style="list-style-type: none"> <li>Off heat duct Set EFOY COMFORT</li> <li>Isolated exhaust hose</li> <li>User manual and Service fluid</li> </ul>
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Fuel Cartridges	M5	M10
Volume	5 l	10 l
Weight	4.3 kg	8.4 kg
Nominal capacity	5.5 kWh	11.1 kWh
Dimensions (L x W x H)	190 x 145 x 283 mm	230 x 193 x 318 mm

## EFOY COMFORT-Fuel Cells - Output Power characteristic



## EFOY COMFORT-Fuel Cells - U-I and U-P characteristic

