

Performance data ¹ 12 V	EFOY 80	EFOY 150	EFOY Pro 900	EFOY Pro 1800	EFOY Pro 2800
Max. output power	40 W	75 W	42 W	82 W	125 W
Output Power ² within 3.000 hours	24 W	45 W	34 W	68 W	105 W
Output Power ² within 6.000 hours	--- ³	--- ³	28 W	56 W	87 W
Max. charging current @ 10.5 V	3.8 A	7.1 A	4.0 A	7.8 A	11.9 A
Recommended minimal battery capacity lead batteries	40 Ah	60 Ah	40 Ah	60 Ah	80 Ah
Maximum adjustable battery capacity lead batteries	800 Ah				
Recommended minimal battery capacity LiFePO4 batteries	20 Ah	30 Ah	20 Ah	30 Ah	40 Ah
Maximum adjustable battery capacity LiFePO4 batteries	600 Ah				
Quiescent consumption	0.5 W				

Performance data ¹ 24 V	EFOY 80	EFOY 150	EFOY Pro 900	EFOY Pro 1800	EFOY Pro 2800
Max. output power	40 W	75 W	42 W	82 W	125 W
Output Power ² after 3.000 hours	21 W	43 W	32 W	65 W	100 W
Output Power ² after 6.000 hours	--- ³	--- ³	27 W	53 W	83 W
Max. charging current @ 21.0 V	1.9 A	3.6 A	2 A	3.9 A	6 A
Recommended minimal battery capacity lead batteries	20 Ah	30 Ah	20 Ah	30 Ah	40 Ah
Maximum adjustable battery capacity lead batteries	400 Ah				
Recommended minimal battery capacity LiFePO4 batteries	10 Ah	15 Ah	10 Ah	15 Ah	20 Ah
Maximum adjustable battery capacity LiFePO4 batteries	300 Ah				
Quiescent consumption	0.6 W				

[1]

General technical data for EFOY Fuel Cells	EFOY 80	EFOY 150	EFOY Pro 900	EFOY Pro 1800	EFOY Pro 2800
Nominal voltage	Lead: 12 V / 24 V (Lead-Gel, Lead-Acid, AGM) LiFePO4: 12.8 V / 25.6 V				
Acceptable battery types	Lead: 2 V cells: 6S (12 V) und 12S (24 V) LiFePO4: 3.2 V cells: 4S (12.8 V) und 8S (25.6 V)				
Consumption ⁴	0.9 l / kWh				
Connectable cartridges	1 (up to 8 with EFOY Fuel Manager)				
Length fuel cartridge connector	75 cm / 29.5 in				
Weight	6.5 kg	6.9 kg	6.5 kg	7.2 kg	7.8 kg
Dimensions (L x D x H)	448 x 198 x 275 mm				
User interface	Push button and LED optional 4,3" TFT Display optional Bluetooth adapter – EFOY App optional Ethernet connection to EFOY Cloud				
Data interface	RJ-12 socket (CAN & RS232) for the use of accessories RJ-45 socket (Ethernet)				
Communication protocol	MODBUS TCP; clear text protocol (SIO commands) Secured MQTT protocol to EFOY Cloud				
Electrical interface	4-pin Plug for EFOY charging cable Power: Positive (+) and negative (-) terminals: 4 mm ² (AWG 12) Sense: Positive (+) and negative (-) terminals: 0.75 mm ² (AWG 20)				
Electrical interface for EFOY accessory	Positive (+) and negative (-) terminals: min 0.75 mm ² (AWG 20) / max 2.5 mm ² (AWG 14) Available voltage: battery voltage / Max. current: 2 A (external fuse needed)				
Noise level ⁵ at 1 m	< 44 dB (A)	< 47 dB (A)	< 45 dB (A)	< 48 dB (A)	< 50 dB (A)
Minimal installation space (L x D x H)	EFOY Fuel Cell only: 510 x 320 x 290 mm				
Inclination along the roll axis	permanent: max. 35°				
Inclination along the lateral axis	permanent: max. 35°				
Operating temperature ⁶	EFOY: -20 °C to +40 °C / -4 °F to +104 °F EFOY Pro: -20 °C to +50 °C / -4 °F to +122 °F				

Start-up temperature	EFOY: +3 °C to +40 °C / +37 °F to +104 °F EFOY Pro: +3 °C to +50 °C / +37 °F to +122 °F	
Storage temperature	+1 °C to +50 °C / +34 °F to +122 °F	
International Protection (IP-Class)	IP 21	
Altitude	From approx. 2000 m above sea level there is a reduction in performance possible	
Warranty ⁷	24 months within 3.000 operating hours	24 months within 6.000 operating hours
Certificates	     	

Fuel Cartridges	M5	M10	M28 (only with M28- adapter)	MT60
Volume	5 litres / 1.32 gallons	10 litres / 2.64 gallons	28 litres / 7.4 gallons	60 litres / 15.9 gallons
Weight	4.3 kg / 9.5 lbs	8.4 kg / 18.5 lbs	23.4 kg / 51.6 lbs	55.0 kg / 121.0 lbs
Nominal capacity	5.6 kWh	11.1 kWh	31.1 kWh	66.7 kWh
Autonomy @ 50 W	111 h	222 h	622 h	1333 h
Dimensions L x W x H	190 x 145 x 283 mm / 7.5 x 5.7 x 11.1 in	230 x 193 x 318 mm / 9.1 x 7.6 x 12.5 in	370 x 285 x 395 mm / 14.6 x 11.2 x 15.6 in with M28 Adapter: 370 x 285 x 425 mm / 14.6 x 11.2 x 16.7 in	340 x 390 x 670 mm / 13.4 x 15.4 x 26.4 in

¹ All performance data apply to the connection of the charging cable to the EFOY.

² The output power varies by $\pm 10\%$ and decreases with the operating hours, depending on the installation situation and the operating conditions.

³ Operation still possible after 3000 h, no guaranteed power output.

⁴ Effective consumption depends on operating conditions and hours.

⁵ Different noises may occur due to different components.

⁶ The output power may be reduced at temperatures above +35 °C / 95 °F (EFOY) and +42 °C / 108 °F (EFOY Pro). At temperatures below 0 °C, charging lithium batteries (LiFePO4) may not always be possible. Follow the instructions from the battery manufacturer.

⁷ Warranty conditions: "Warranty_EFOY 80_150_EFOY_Pro 900_1800_2800" apply

All technical data at test conditions of 20 °C / 68 °F
Subject to modifications and errors
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