

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 LiFePO ₄ batteries	20 Ah	30 Ah	20 Ah	30 Ah	40 Ah
Maximum adjustable battery capacity LiFePO ₄ 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 LiFePO ₄ batteries	10 Ah	15 Ah	10 Ah	15 Ah	20 Ah
Maximum adjustable battery capacity LiFePO ₄ 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 ± 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 do modifications and errors
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