





Article List 2010


EF0Y Pro Series and EF0Y ProCube

Valid: from March 1, 2010
Subject to change


EFOY Pro Series Set

Figure	Article Description	Article Information	Article no.
	<p>EFOY Pro 600 Set</p>	<p>Charging capacity: 600 Wh per day Dimensions (L x W x H): 433 x 188 x 278 mm Fuel cartridge compatibility: M5, M10, M28 Automatic battery charger for 12 V and 24 V batteries (lead-acid, lead-gel and AGM batteries)</p> <p><u>Set includes:</u></p> <ul style="list-style-type: none"> • Remote control with data line • Mounting plate • Charge line CL4 • Cartridge holder with belt • Off heat duct (set) • Exhaust hose • Service fluid • User manual (German, English) • Shipping box for transportation 	<ul style="list-style-type: none"> • Europe: 151 000 010 (EFOY Pro 600 Set) • NAFTA & ROW 151 000 012 (EFOY Pro 600 US Set)
	<p>EFOY Pro 1600 Set</p>	<p>Charging capacity: 1560 Wh per day Details: see EFOY Pro 600 Set</p>	<ul style="list-style-type: none"> • Europe: 151 000 070 (EFOY Pro 1600 Set) • NAFTA & ROW 151 000 075 (EFOY Pro 1600 US Set)
	<p>EFOY Pro 2200 Set</p>	<p>Charging capacity: 2160 Wh per day Details: see EFOY Pro 600 Set</p>	<ul style="list-style-type: none"> • Europe: 151 000 167 (EFOY Pro 2200 Set) • NAFTA & ROW 151 000 164 (EFOY Pro 2200 US Set)




EFOY Pro Series Basic

Figure	Article Description	Article Information	Article no.
	EFOY Pro 600	Charging capacity: 600 Wh per day Dimensions (L x W x H): 433 x 188 x 278 mm Fuel cartridge compatibility: M5, M10, M28 Note: M28 requires M28 adapter Automatic battery charger for 12 V and 24 V batteries (lead-acid, lead-gel and AGM batteries) <u>Includes:</u> <ul style="list-style-type: none"> • Service fluid • User manual (German, English) • Shipping box for transportation 	<ul style="list-style-type: none"> • Europe: 151 000 009 (EFOY Pro 600) • NAFTA & ROW: 151 000 013 (EFOY Pro 600 US)
	EFOY Pro 1600	Charging capacity: 1560 Wh per day Details: see EFOY Pro 600	<ul style="list-style-type: none"> • Europe: 151 000 069 (EFOY Pro 1600) • NAFTA & ROW: 151 000 096 (EFOY Pro 1600 US)
	EFOY Pro 2200	Charging capacity: 2160 Wh per day Details: see EFOY Pro 600	<ul style="list-style-type: none"> • Europe: 151 000 082 (EFOY Pro 2200) • NAFTA & ROW: 151 000 083 (EFOY Pro 2200 US)

EFOY ProCube

Figure	Article Description	Article Information	Article no.
	EFOY ProCube	Preconfigured outdoor system for EFOY Pro fuel cells. Everything is preconfigured as plug&play system for one EFOY Pro, one Battery and one fuel cartridge. Dimensions (L x W x H): 80.5 x 60.5 x 43.0 cm Weight 18 kg Does <u>not</u> include fuel cell, battery and fuel cartridge. Please order EFOY Pro Basic separately.	153 002 003

Fuel Cartridges

Figure	Article Description	Article Information	Article no.
	Fuel cartridge M5	Cartridge with fuel for EFOY fuel cells. Content: 5 liter (Capacity: 5.5 kWh). Dimensions (L x W x H): 19.0 x 14.5 x 28.3 cm Delivery size: Packaging with 2 cartridges	150 905 006
	Fuel cartridge M10	Cartridge with fuel for EFOY fuel cells. Content: 10 liter (Capacity: 11.1 kWh). Dimensions (L x W x H): 23.0 x 19.3 x 31.8 cm Delivery size: Packaging unit with 1 or 2 cartridges	150 905 008
	Fuel cartridge M28	Cartridge with fuel for EFOY fuel cells. Content: 28 liter (Capacity: 31.1 kWh). Dimensions (L x W x H): 37,0 x 28,5 x 39,4 cm Delivery size: Packaging unit with 1 cartridge Note: requires M28 adapter	150 905 040

Accessories











Figure	Article Description	Article Information	Article no.
	M28 adapter	The M28 adapter is required to connect an M28 cartridge to the EFOY Pro fuel cell.	151 003 011
	DuoCartSwitch DCS1	The DuoCartSwitch is used to connect two EFOY fuel cartridges to one EFOY Pro fuel cell Includes: Port Doppler, connecting cables. To activate the DuoCartSwitch on the first time, an Interface Adapter IA1 (maybe USB Adapter) is necessary.	151 000 189
	Interface adapter IA1	The interface adapter IA1 allows you to connect EFOY Pro fuel cell to a PC via the serial COM interface.	151 075 011
	USB adapter	The USB adapter is required to connect the interface adapter to a PC with USB interface. This is a standard USB-to-Serial adapter.	151 906 018
	Fuel cartridge sensor FS1	The fuel cartridge sensor FS1 monitors the fuel level in the fuel cartridge and signals when it drops below a preset level (pre-alarm). It should be combined with the GSM modem.	151 905 006
	GSM modem GSM-2-SMS	The GSM modem enables remote monitoring and management of the EFOY Pro fuel. <u>Includes:</u> <ul style="list-style-type: none"> Alarm notification in case of system error or low fuel cartridge (as SMS text message or Email) Remote management - connect to the EFOY Pro from remote 	151 906 019
	Cluster controller CC1	The cluster controller CC1 provides the following functions: <ul style="list-style-type: none"> Operate up to 5 EFOY Pro's in parallel Connect the fuel cartridge sensor FS1 and PC interface adapter IA1 to the EFOY Pro Control EFOY Pro via remote-on pins 	151 076 058

Figure	Article Description	Article Information	Article no.
	Battery 40 Ah	Dryfit Solar gel battery 12 V, 40 Ah Dimensions (L x W x H): 21 x 17.5 x 17.5 cm Weight 14.8 kg	153 003 001
	Battery 60 Ah	Dryfit Solar gel battery 12 V, 60 Ah Dimensions (L x W x H): 26.1 x 13.6 x 23.0 cm Weight 19 kg	153 003 002
	Battery 85 Ah	Dryfit Solar gel battery 12 V, 85 Ah Dimensions (L x W x H): 35.3 x 17.5 x 19.0 cm Weight 27.3 kg	153 003 003

Spare parts











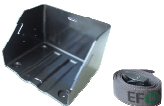









Figure	Article Description	Article Information	Article no.
	Remote control with data line	Remote control for EFOY Pro fuel cells <u>Includes:</u> <ul style="list-style-type: none"> • Surface mount frame • Remote Control with frame • 10 m data line DL2 	151 077 029
	Data line DL2	Data line DL2 (10 meter)	151 075 033
	Frame for remote control	Frame for remote control	151 077 011
	Surface mount for remote control	Surface mount frame for remote control	151 077 020
	Screw delta H30 x 6 (4 pieces)	Screws for mounting the remote control on the surface mount frame. Delivery size: 4 screws	000 992 702
	Mounting plate for EFOY Pro	For secure mounting of the EFOY Pro.	151 908 012
	Charge line CL4 (replaces CL1)	Charge line CL4 is used to connect the EFOY Pro to the battery. <u>Includes:</u> <ul style="list-style-type: none"> • Connecting line to fuel cell (1 m) • Battery fuse - sense (2 A) BF1 • Battery fuse - power (15 A) BF3 	151 906 034
	Connecting line to fuel cell	Cable to connect the EFOY Pro to the battery fuse cables.	151 906 004
	Battery fuse line - sense (2 A) BF1	Cable including 2 Ampere fuse to connect the sense line to the battery.	151 906 007
	Battery fuse line - power (15 A) BF3 (replaces BF2)	Cable including 15 Ampere fuse to connect the power line to the battery.	151 906 024
	Extension line - sense (length 8 m)	Extension cable for sense line, length: 8 m	151 906 005
	Extension line - power (length 8 m)	Extension cable for power line, length: 8 m	151 906 006

Figure	Article Description	Article Information	Article no.
	Fuel cartridge holder with belt FH1	For safe transport of the M5 or M10 fuel cartridges in the vehicle these are fastened using a cartridge holder and a belt. For mounting the cartridge holder in the vehicle you will need four screws and, if necessary, appropriate anchors.	150 905 002
	Belt for cartridge holder	Belt for fastening the M5 or M10 fuel cartridge to the fuel cartridge holder.	151 908 003
	Exhaust hose EH1	During operation the device will produce water vapour and carbon dioxide. These are led to the outside by means of the exhaust hose. Length: 1.5 m	150 904 004
	Off heat duct EFOY Pro	During operation the EFOY Pro generates off heat. The off heat duct is used to conduct this off heat to the outside. Includes: <ul style="list-style-type: none"> • Off heat flange • Off heat bow • Off heat tube • External face plate • Lense head screws M4 x 10 (4 screws) 	151 903 021
	Off heat flange EFOY Pro	The off heat flange is required to connect the off heat tube resp. the off heat bow to the EFOY Pro.	151 903 020
	Off heat bow	The off heat bow is used to direct the off heat in an angle to the outside.	151 903 014
	Off heat bow with screws	The off heat bow is used to direct the off heat in an angle to the outside. This article includes 4 screws.	151 903 022
	Off heat tube	The off heat tube conducts the off heat to the outside. Jolted the off heat tube is 60 cm long, it can be extended up to 100 cm. Diameter: 10 cm.	151 904 001
	External face plate	The external face plate prevents foreign matters from entering the off heat tube.	151 903 013
	Lense head screws M4 x 10 (4 screws)	Screw for fastening the off heat flange to the EFOY Pro. Delivery size: 4 screws per package	000 992 629
	Service kit	The service fluid is needed if the display indicates that service fluid needs to be refilled.	150 909 002
	Shipping box EFOY	Packaging for EFOY Pro. Dimensions (L x W x H): 60 x 35 x 63 cm	151 902 015

The SFC Smart Fuel Cell AG corporation (hereinafter "SFC") develops, produces and markets direct methanol fuel cell systems.

Caution: Products are used at the Customer's own peril and risk. Each product offers a function and safety which can be expected in accordance with the current state of science and technology on the basis of regulations for permits, operating instructions, regulations in the matter delivered on how the product should be handled (technical manual) – especially in view of the tests and checks prescribed there – and the other comments made there.

1 Terms of Business, Offer, Completion of Contract

1.1 Only the terms of business contained in this document apply to all offers, deliveries and services of SFC. The general terms of business of the Customer, if any, do not apply.

1.2 All orders (by telephone, email, fax or mail) become legally binding on the Orderer when they reach SFC.

1.3 The sales contract for a given order is affected by written confirmation through SFC or upon mutual preparation and execution of a special sales contract.

2 Delivery Date, Shipping, Delivery, Passing of Risk

2.1 Delivery date. The basis for SFC's obligation to deliver is the delivery date indicated in the order confirmation.

2.2 Delivery delays. If delivery is delayed, the Customer is entitled to set a reasonable deadline for delivery and to withdraw from the contract if this deadline is not met. In this case the Customer waives all rights to assert claims for damages vis-à-vis SFC which arise from withdrawal from the contract.

2.3 All delivery dates are subject to proper, punctual deliveries to SFC. If any of these do not take place at all or not on time, SFC reports this to the Customer.

2.4 Shipping and Passing of Risk. If it is agreed that the product is to be shipped rather than picked up by the customer, it is shipped at the Customer's risk. Risk passes to the customer when the matter to be delivered is transferred by SFC to the person carrying out the transport.

3 Prices, Terms of Payment

3.1 Net prices are given in the sales contract or the written confirmation from SFC as well as in the invoice. They apply ex SFC's seat of business without shipping costs (packaging, freight, transportation insurance, customs duties) and without value added tax insofar as nothing else is agreed to in writing.

3.2 Unless something else has been agreed to in writing, when products are picked up the gross sales price is to be paid in advance or upon transfer of the products. When shipping is agreed to, shipment only takes place when the amount due has been received. If, in an exceptional case, it is agreed that payment is due after the products have been picked up or issued, then the products continue to be the property of SFC until full payment inclusive of all additional costs to SFC which are due has been rendered.

3.3 In the event of payment default all the costs incurred by SFC as a result of the payment default are borne by the Customer.

4 Warranty

4.1 The agreed upon characteristics of a given product are only those characteristics, properties, qualities, performance data, functionalities and other attributes described in the documentation from SFC.

There are no further agreements on product qualities. In particular, SFC assumes no warranty that a product is suitable for a given application.

4.2 With justified notification of defects SFC decides freely upon due assessment of the circumstances whether to render rectification, substitute delivery or a credit for the purchase price or reduced value. If examination of goods reported as defective shows that a defect is not covered by SFC's warranty obligations, then the customer bears the transportation, work and other costs which arise in connection with this examination of these goods. In all

cases the customer pays the costs for sending in damaged products.

4.3 The Customer loses any possible claims when, for example, operating instructions and warnings delivered with the products are not followed by the Customer or its customer; the product delivered is handled or stored improperly; the Customer uses a product together with other components, substances or materials in a way that is contrary to the documentation from SFC; or the Customer or unauthorised third party has tampered with the goods delivered or undertaken changes to them.

4.4 The Customer examines without delay all goods delivered by SFC. Any defects shall be reported by the Customer to SFC within two weeks of transfer of goods except that defects which cannot be recognized then shall be reported to SFC within 5 working days of being discovered. When defects are not reported or are not reported on time, the goods delivered are deemed to have been approved in respect to the alleged defects, and subsequent warranty claims by the Customer pursuant to this item in these Business Terms are excluded.

5 Liability

With slightly negligent causation of damages SFC is, for whatever legal grounds, only liable if its legal representatives or assistants have violated essential duties and then this liability is limited to compensation for damages which are typical and were foreseeable by SFC when the contract came into effect. Beyond that, liability by SFC in the case of slight or simply negligent causation of damages is excluded.

Insofar as SFC is liable pursuant to the preceding item 5.1, its liability to the Customer per incident is restricted to three times the net sales price of the goods delivered. If there is danger of greater damages, the Customer points this out in time to SFC in each individual case.

Claims by the Customer to compensation for damages pursuant to point 4 of these Business Terms fall under the statute of limitations one year after transfer of goods by SFC.

6 Place of Fulfilment, Law, Jurisdiction

6.1 The sole place of fulfilment for delivery and payment obligations is the seat of SFC.

6.2 All legal relations between the Customer and SFC are regulated by German law under exclusion of the UN Sales Convention. The place of jurisdiction for all disputes is Munich. SFC is also entitled to sue at the Customer's seat.

6.3 If one or more provisions in these Business Terms is or becomes ineffective or unenforceable in whole or in part, then the effectiveness of the remaining provisions is not affected.

6.4 Changes and extensions to these Terms as well as collateral agreements are only valid when made in writing.

EFOY Pro Series Fuel Cells - Guarantee

1. Guarantee

The guarantee covers any defects caused by materials or by the manufacturing process.

The guarantee does not cover damages caused by improper use of the unit or operation that is not in accordance with the user manual, in particular:

- If fuel cartridges other than original EFOY fuel cartridges are used,
- Inappropriate handling,
- Water damage,
- Improper transportation,
- If the unit has been opened.

Guarantee for EFOY Pro 600, 1600, 2200

SFC provides a 2 years guarantee for up to 3,000 hours of operation.

2. Extent of the Guarantee

The guarantee covers defects (see 1. Guarantee) from the time of sale.

The manufacturer shall remedy such defects by either repair or replacement (updated model where applicable) as he deems appropriate. Should the manufacturer provide a guarantee, the guarantee period with regard to repair or replacement parts shall not recommence from the time of service. Instead, the guarantee from time of sale will remain in force. Any other claims, in particular claims for damages on the part of the purchaser or a third party, are invalid. The provisions of the product liability law remain in effect as well as any claims against the manufacturer pertaining to guarantees remain in force as provide by law. The guarantee does not extend to any extra costs associated with mounting or dismounting the unit.

3. In Case of Claim

Always notify the manufacturer's service center in writing in case of malfunction. Please describe the defect in detail. Please also indicate serial number and include the original invoice. The purchaser must bring or send the unit to the manufacturer at his own risk so that the manufacturer can determine whether the defect is covered by the guarantee. The unit must be sent to the manufacturer as freight. If the defect is covered by the guarantee, the manufacturer shall assume the transportation costs. Should the defect not be covered by guarantee, the manufacturer shall notify the customer, informing the customer of what repair costs the manufacturer shall not assume. The customer shall bear the cost of transportation in this case.

The manufacturer's address is:

SFC Smart Fuel Cell AG
Eugen-Saenger-Ring 4
D-85649 Brunthal
Tel.: +49 89 / 673 59 20
Free Call: 00800 / 73 27 62 78**
Fax.: +49 89 / 673 592 369

sales@efoy.com

www.efoy.com

The customer service is available for technical inquiries concerning EFOY fuel cells during CET/CEST 8-18 hours at the following numbers:

Toll-free number: 00800/73 27 62 78**

If calling from outside the countries listed below, please dial +49 89 / 673 5920

**The toll-free number is available in the following countries: Germany, Austria, Belgium, Denmark, France, Great Britain, Italy, the Netherlands, Norway, Spain, Sweden and Switzerland.