

Advantages of ApolloFLEX Mono-TL

- **Fully automatic and maintenance free**

As soon as the sun shines, electricity will be produced and you will be independent of the electric grid and free to stop wherever you please.

- **Light, thin and semi-Flexible**

Weighing from 1.0 – 6.5 kg, the ApolloFLEX Mono-TL is up to 50% lighter than other solar modules. The thin anodized aluminum backsheet allows the panel to be mounted on slightly curved surfaces and are extremely robust. The thin aerodynamic design also reduces wind load and helps save fuel costs while driving.

- **Salt water resistant, safe to walk on, non-breakable, theft proof, hail proof and solidly adhered**

- **More Energy, 151 Watts per Meter² ***

ApolloFLEX Mono-TL modules use monocrystalline solar cells with an efficiency of up to 19%. These solar cells provide a higher energy conversion and more flexibility than standard crystalline cells.

*With the 145 Watt Module

- **Modular and Expandable**

Require more electricity? No issue, simply connect up additional ApolloFLEX Mono-TL solar modules.

- **Quality & Safety**

ApolloFLEX Mono-TL series of modules are manufactured in an ISO 9001 – 2002 certified factory.



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www.ApolloFLEXMono.com



ApolloFLEX Mono-TL

Dealer Contact



NEW

The alternative Solar Module –
lighter, thinner, more efficient

ApolloFLEX Mono-TL

Energy Conversion Efficiency 19%

Aerodynamic

Highly Efficient

Maintenance Free

Ultralight

Thin

MADE IN GREAT BRITAIN



The best solar module for vehicles

Solar modules and complete systems for Motorhomes, Caravans,
Conversion Vans, Expedition Vehicles, Sailing Yachts and Boats

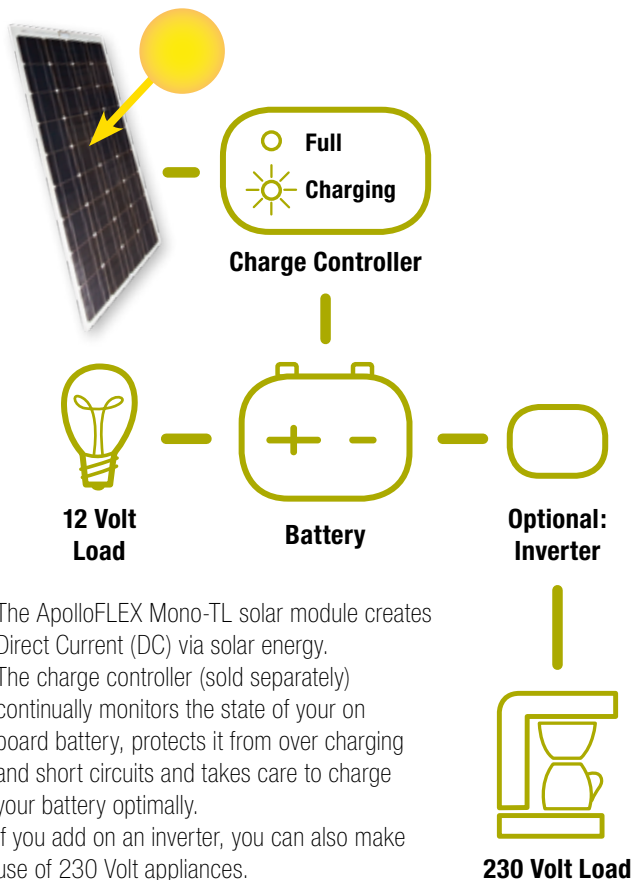
www.ApolloFLEXMono.com

Energy supplied by ApolloFLEX Mono-TL solar modules while you're off the grid

The ApolloFLEX Mono-TL solar panel charges your on board battery of your motorhome, caravan, boat or other vehicle automatically, silently and maintenance free.

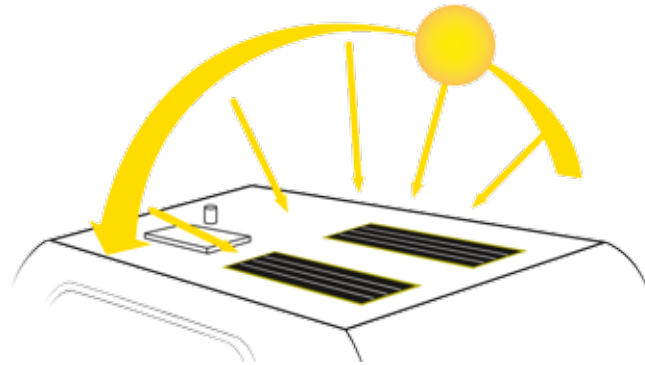
Thanks to the ApolloFLEX Mono-TL complete solar systems you are completely independent of the electric grid.

Here is how the ApolloFLEX Mono-TL complete system works



The ApolloFLEX Mono-TL solar module creates Direct Current (DC) via solar energy. The charge controller (sold separately) continually monitors the state of your on board battery, protects it from over charging and short circuits and takes care to charge your battery optimally. If you add on an inverter, you can also make use of 230 Volt appliances.

Monocrystalline solar cells deliver more energy from the sun



Electrical Specifications

Nominal Power (Watts)	18	50	100	145
Short circuit current – I _{sc}	1.05 A	2.87 A	5.48 A	8.69 A
Rated current – I _{mp}	0.95 A	2.67 A	5.17 A	8.08 A
Open circuit voltage – V _{oc}	22.25 V	22.57 V	22.82 V	22.57 V
Rated voltage – V _{mp}	18.68 V	18.68 V	19.22 V	19.01 V

Mechanical Specifications

Nominal Power (Watts)	18	50	100	145
Length (cm)	416	530	1203	1482
Width (cm)	356	672	548	672
Weight (kg)*	0.96	2.31	4.29	6.47
Cell Count	36	36	36	36
Cable Length and wire Gauge	5 m / 1.0 mm ²		5 m / 1.5 mm ²	
Backside	1.5 mm Anodized Aluminum			

*without cable

Operating Conditions

Temperature Range	- 40 °C to + 85 °C
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Warranty and Power Guaranty

2 Years Materials and Workmanship

Sample calculations of energy use per day in a vehicle

	Power in Watt	Time in Hours	ApolloFLEX Mono-TL 100	2 x ApolloFLEX Mono-TL 100
Water Cooker	800	0.2		160
Computer	90	1	90	90
Coffee Machine	1500	0.2		300
Battery Charger	20	2	40	40
SAT/TV	70	2	140	140
LED Lighting	100	2	200	200
Water Pump	40	0.5	20	20
Total (in Watt)			490	950

Daily Output of ApolloFLEX Mono-TL: 100 W = 500 Watts

*Based on 5 hours of nominal power as an average for a summer day in Germany

Power Supply Without Borders

Those on the go who wish to use electrical appliances as if they were at home require enough power to handle the task. The ApolloFLEX complete solutions offer a variety of kits to provide you with your daily electrical needs.

• Also including 230 Volt Appliances

With an inverter you may also utilize your normal home appliances rated at 230 Volt.

• High Tech and Clean Energy

No fuel tanks to fill up, no noise, no maintenance. Simply environmentally clean energy from the sun.