

The smallest complete mobile solar system in the world

### E-HYB mobil -Energy from sun/ wind -found everywhere-

This compact, complete TRUSTEC E-HYB solar power generation system increases the lifestyle quality for those who need 230 V AC or 12 V DC from 720 Wh up to 2400 Wh.

E-HYB-mobil is made up of premium components such as:

- pure sine inverter
- lithium-iron-yttrium-battery
- charge control device
- cell monitoring/ voltage & temperat.
- deep discharge protection
- display of battery capacity
- charging current, current consumption, inverter function
- robust and sturdy ABS/PC-housing (refer to page 14)

The portable E-HYB-mobile units are up to now unparalleled on the world market.

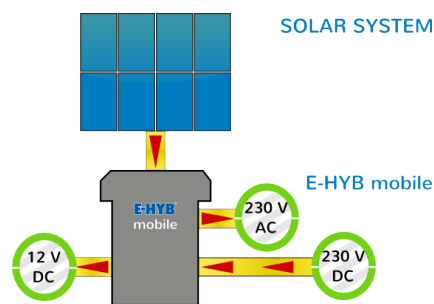
They comprise the technology of a complete solar plant with wind power, charge controller, rechargeable battery, inverter as well as control techniques. Solar modules – or a small wind turbine - just need to be connected producing 230 V AC and 12 V DC everywhere in the world.

It provides the optimum solution for:

- small residential units all over the world
- also to be used for gardens, cars and boats, for sales vehicles and technical vehicles, too.

Sturdy construction:

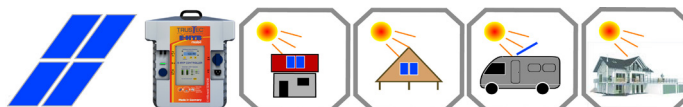
- heat-resistant up to XX °C
- splash-water resistant in the plastic case
- expected operating time up to 15 years (according to use)



#### EASY AND SIMPLE ASSEMBLY INSTALLATION:

1. Arrange the solar panels to their requested positions.
2. Connect the cables of the modules to the "E-HYB".
3. The yttrium-lithium-iron-battery will be charged now.
4. Switch on the TRUSTEC-E-HYB -> Sinus inverter is working -> 230 V can be picked off.

This way the generated solar current will be free of charge for many years (230 V + 12V).





Typ	TEM 720/ 230	TEM 1200/ 230	TEM 2400/ 230
<b>Solar Technology</b>			
Moduls 100 W mono (2-4 panels)	1-4	1-6	1-8
Maximum solar system Wp	170-400	170-600	800
Average daily output in Watt for system installed in DK / DE / GR / ZY / EGY	240/ 254/ 315/ 363/ 415	481/ 508/ 630/ 363/ 415	961/ 1017/ 1260/ 363/ 415
daily output/ max. energy	601/ 508/ 630/ 726/ 830	1202/ 1017/ 1260/ 1451/ 1660	2404/ 2033/ 2519/ 2902/3320
Elevated modules		yes	
Rubber-protection for modules (round)		yes	
Charge Controller		yes	
M solar cable with connector	5	5	10
MC 4 + photovoltaic connector		yes	
<b>Lithium-iron-phosphate battery:</b>	1 segment	2 segments	4 segments
Voltage V	12	12	12
Storage capacity (compared to lead gel batteries)	50Ah=600Wh 60 <sub>120</sub>	100Ah=1200Wh 100 <sub>200</sub>	200Ah=2400Wh 200 <sub>400</sub>
Charge-Cape-state-monitoring		yes	
Display A / V / cap /		yes	
Direct current - 12 V terminals		yes	
Photovoltaic charging terminals, max. V	18	18	18
Output protection		yes	
Grid charger - through supply unit A (A)	10	10	15
Overload protection		yes	
<b>Pure sine wave inverter:</b>			
AC voltage	230	230	230
Rated/ Peak capacity	700/ 1400 (opt.1000/1500)	1000/ 2000 (opt.1500)	1500/ 3000
Wave type		Sinus (THD < 3%)	
Frequency		50 / 60 Hz switchable by DIP switch	
AC regulation		+/- 3%	
LED display		Input voltage level. Output load level and error status	
No-load current		1.2	1.40 on 12V/ 0.70 on 24V
Stand-By current A		0,25	0.28 on 12V/ 0.15 on 24V
Efficiency in &		91%	90% bei 12V/ 93% on 24V
<b>Protection:</b>			
Low battery level - alarm:		11	11/ 22
Low battery level - shut down		10.5	10.5/ 21
Overvoltage		15.3	15.3/ 30.6
Overheating		Switch-off output voltage - automatically switched on when temperature decreases	
Short circuit		Switch-off output voltage, energy is switched on automatically	
Cooling		Load-controlled ventilator	
<b>Environment:</b>			
Working temperature °C		0 -+ 40	
Operating humidity		20 - ca. 90% RH non condensing	
Connections		DC charge current 110-230V load, 230V sine wave, ±MC plug, coupler, Schuko plug, 12V output socket	
<b>Safety &amp; EMC</b>			
Compliance with:		ENS55022 class A EN61000 3-2.3 EN60950 - 1	
Measurements (width x height x depth)	450 x 400 x 250 mm	450 x 450 x 250 mm	450 x 650 x 250 mm
Weight	18 kg	25 kg	30 kg