

# Power-Tarom

## Solar Charge Controller and System-Manager

- ✓ LC-display for state of charge, tension, currents, Ah
- ✓ system parameters and functions user adjustable
- ✓ system data transmission on the powerline
- ✓ module power up to 6 kW
- ✓ protection IP65



- ✓ high efficient hybrid shunt regulation
- ✓ theft alarm for the modules
- ✓ Max. 140A module- and 70A load-current
- ✓ system voltage 12/24 or 48 Volt
- ✓ automatic compensation of loss of tension on the battery cable

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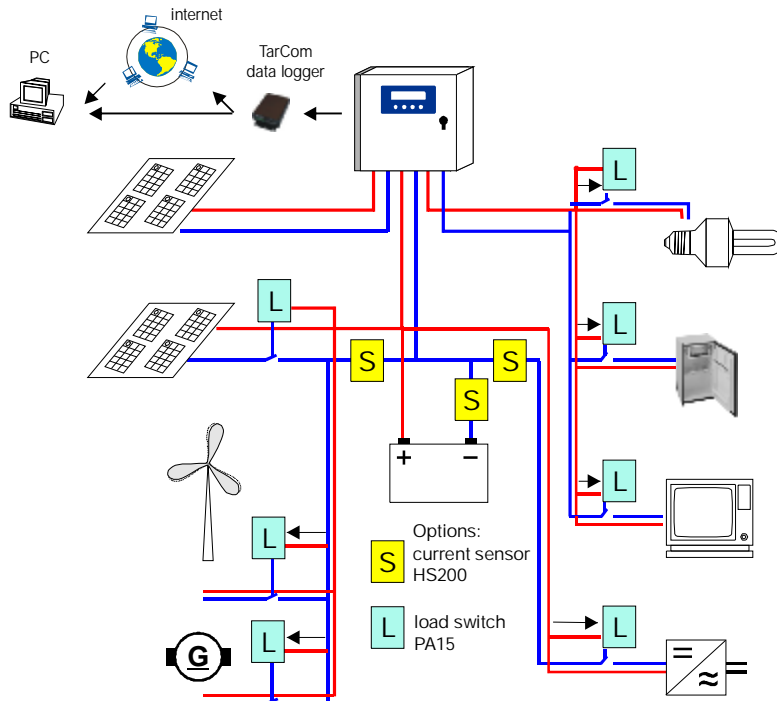
## Energy management for your photo-voltaic system

The Tarom calculates the state of charge and the capacity of the battery very exactly. All this informations are modulated on the power line and can be used to manage the whole system. You can switch on or off loads or generators with remote switches.

Most of the parameters of the Tarom can be field adjusted: final charge voltage, gassing time and voltage, overvoltage, night light function and many more.

The optional datalogger TarCom enables the communication between the Tarom and PC. Together with the modem option all system parameters can be monitored via the internet.

An integrated alarm contact switches if a system error occurs: over/undervoltage, battery empty, overtemperature, module disconnected or no charge since 24h.



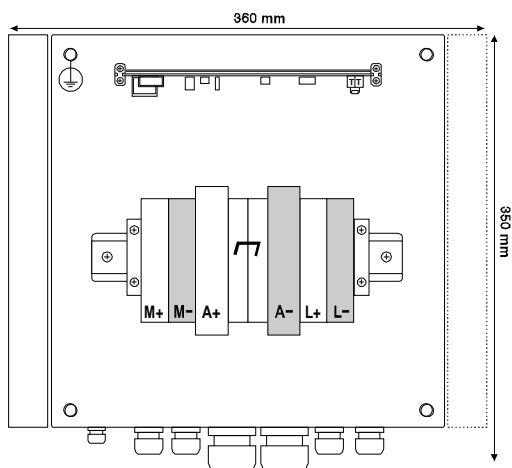
### HS200 current sensor and PA15 load switch

If inverters or generators are connected directly to the battery the HS200 current sensor can be used to supply the Tarom controller with these data.

The PA15 receiver is used to switch external loads or generators depending on the state of charge of the battery.

### LC-Display

In the first line are permanently all the important values of the system: state of charge (SOC), tension, charge and load current. Below you can read the more exact values and status informations alternating.



SOC	Bat	Charge	Load
98%	13.7	26	17
SOC = 98%			
37%	11.5	20	04
I mod = 20.4A			
37%	11.5	00	04
no module			

### technical data:

20°C	Tarom 2070	Tarom 2140	Tarom 4055	Tarom 4110	Tarom4140
system voltage	12 24V	12 24V	48V	48V	48V
module current	70A	140A	55A	110A	140A
load current	70A	70A	55A	55A	70A

### all types:

ambient temperature	-15°...+50° C
efficiency	>97%
cable glands	70/90 mm <sup>2</sup>
weight incl. packing	9.5/10.8 kg
dimensions	330x360x190mm
protection	IP 65
cable glands	4/2x M40, 2/4x M32, 1x M25

### user adjustable ranges

	range	default
final charge voltage	13.0..14.5V	13.7V
boost charge	13.5 .. 15.0V / 0.5 .. 5h	14.7V / 2h
equalization charge	14.0 .. 15.5V / 0.5 .. 5h	15.0V / 2h
deep discharge disconnect	20 .. 70% SOC	<30% SOC
reconnect	40 .. 90% SOC	>50% SOC

error signal if : tension <10.5V or >15V, load current >110%, SOC <30%, temp. >85°C, no charge during 24h, no module.

