Photovoltaic – Trainingsystem SOLARTRAINER Profi

Equipment proposal for basic experiments

- Recording the characteristic curve of a diode
- Recording the characteristic curve of a diode series connection
- Recording the characteristic curve of a solar module monocrystalline (polycrystalline / amorphous optional)
- Recording the characteristic curve of a solar module monocrystalline at different levels of irradiation (polycrystalline optional)
- The influence of temperature on the characteristic curve of a solar module monocrystalline (polycrystalline optional)
- The influence of the angle of inclination on the power output of a solar module monocrystalline
- Recording the diurnal cycle of the power output of a solar module for summer and winter situation
- Series connection of solar modules
- Parallel connection of solar modules
- Shading of solar modules without bypass diode (series connection)
- Shading of solar modules with bypass diode (series connection)

ST 01	1 x	solar module connector indoor, for connecting PV-module ST 14
ST 02	2 x	solar module simulated for exact imitation of a PV-module à EUR
		power supply 230V/50-60Hz
ST 14 230V/50Hz	1 x	solar module stand (with solar mod. monocr.10 W, lamp 400 W, dimmer)
ST 16	1 x	diode series connection for basic experiments
ST 18	1 x	set of safety – test leads incl. wall bracket
ST 20 RW	1 x	set of electrical loads, consisting of:
		1 x variable resistor 325 Ohm / 1,2 A
		1 x variable resistor 170 Ohm / 1,7 A
		1 x variable resistor 15,8 K.Ohm / 0.17 A
		1 x variable resistor 15 Ohm / 5,5 A
ST 27 230V	1 x	power supply 0 - 30 V / 0 – 2,5 A DC for ST 16, 230V/50-60Hz
ST 97	1 x	experimental introduction
ST 98	1 x	instruction manual
ST 99 10 Module	1 x	take up frame for 10 instruction - panels