



SOLART-SYSTEM LTD

An Engineering Company for Solar Energy

20 Gulyás Street, Budapest XI. Hungary 1112 T:+361 2461783 F:+361 2461783
e-mail: mail@solart-system.hu web: www.solart-system.hu

SOLAR POWER MEASURING AND BACK UP BAG

At measuring and putting into operation on site electricity is generally needed. In many cases the energy demand is not high at all because only small equipment are needed to operate like measuring instrument, PCs (laptops, notebooks), data acquisition systems etc. But the forms of electricity demand are different.



At development, installation, putting into operation, checking of renewable energy equipment number of measurements are needed. These equipment are situated almost all cases in the open air and they are generally far from the public electricity network.

In education mainly at the renewable energy the field tests and demonstrations electricity is similarly in most cases needed. For measuring and checking mostly electrical instruments, electronic devices like data processing, telecommunication, occasionally videos etc. are needed.

At these field tests, demonstrations and putting into operation far from the public electricity network the electricity is generally provided by small power station like batteries or internal combustion engine-generator. But in some cases the transportation and operation continuously of these small power stations make difficulties.

The portable measuring instruments, data acquisition systems and PCs have generally own energy source, but their operation are limited. So for a longer test it must provide for changing or recharging these energy sources.

At field tests in the open air the electricity is practically provided by solar energy. The solar photovoltaic power source produces electricity directly from the solar energy. The electrical energy produced can use directly or it can storage in batteries. The solar power supply unit developed suitably provide electricity continuously and in different shapes and ranges as well.

The SOLAR POWER MEASURING AND BACK UP BAG is a small portable power station providing electricity from the solar energy. It can be used at field tests, putting into operation, developing and educational demonstration as well. The electricity is provided in different shapes and ranges. Furthermore it has own instrument being suitable for measuring and registration with PC interface.

Main technical data:

■ output power max.		100 W
■ nominal Voltages		4.5...9 VDC, 12 VDC, 24 VDC, 220VAC 50Hz
■ energy converter		silicon solar cells
	can be set up tilt angle	separately changeable
■ energy storage		battery
■ charge control		electronic
■ measuring ranges		0,1 mV - 1000 VDC 0,1 mV - 750 VAC 0,1Ω - 40 MΩ 0,1 μA - 20 ADC 0,1 μA - 20 AAC 0,1 nF - 400 μF 10 μH - 400 mH 4 MHz - 40°C - 1200°C
■ C-MOS output		1-10-100kHz
■ dual LCD display (analog-digital)		
■ max. min. storage		
■ true RMS		
■ PC interface		RS 232
■ PC power socket		6 x Ø 2,1 mm
		4.5...9 VDC, 12 VDC, 24 VDC (+/-)
■ dimension		460x335x150 mm
■ mass		10 kg, portable