SOLART-SYSTEM LTD

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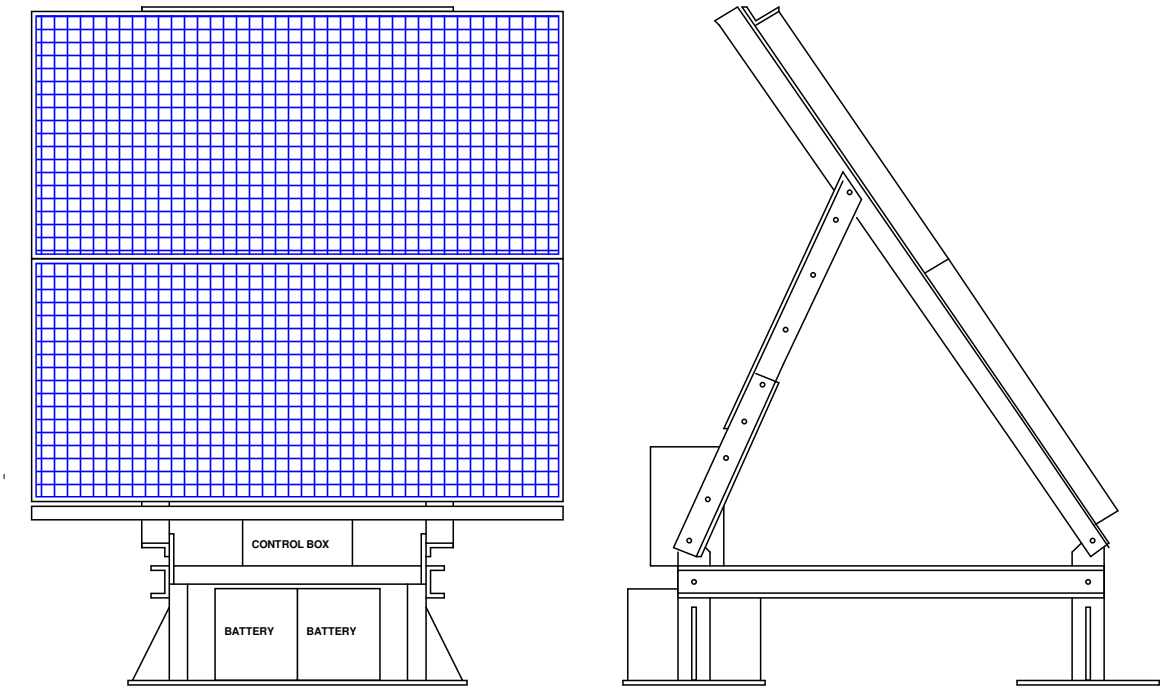
MULTIPURPOSE EDUCATIONAL SOLAR POWER SUPPLY

The Multipurpose Educational Solar Power Supply MESPS is an excellent tool to study the electrical utilisation of the solar energy at different latitude.
The MESPS is not only a simply study aid device, but a solar power supply providing electricity for other study aid devices like radio, TVsets, videos, PCs and for lighting, water pumping, irrigation etc. as well.



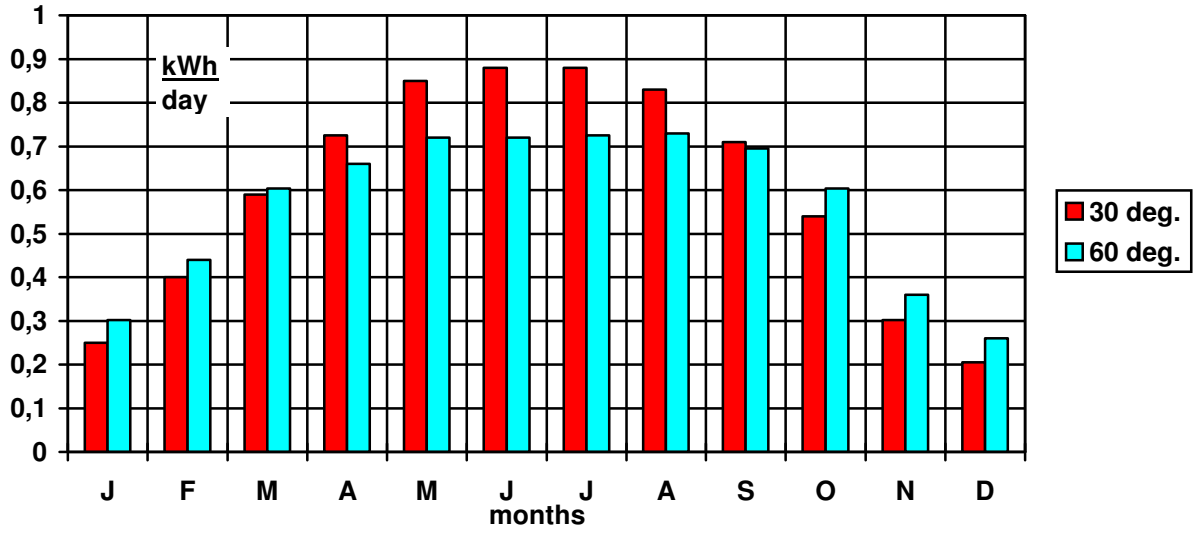
The approx. 1,3 m^2 solar modules are mounted for an adjustable aluminum support having holes for setting the tilt angles. The support has two stay plates. The stay plates are suitable for ground mounting of the MESPS. The stay plates have holes for fixing the equipment. The stay plates could be also loaded by bricks or any other heavy materials without using screws for fixing. The Control Box of the MESPS consisting of the control electronic, the program switch the junctions and measuring terminals normally is fixed on the rear side. The Batteries lay on the rear stay plate resulting heavy load for fixing the equipment. Both the Control Box and Batteries can be also set separately.

THE MAIN TECHNICAL DATA

Nominal DC voltage	$U_{n_{dc}}$ = 24 V DC
Nominal AC voltage	$U_{n_{ac}}$ = 230 V AC 1~50 Hz
Nominal AC power	P_{ac} = 400 VA
Load DC voltage	U_l = 22.2-27.4 V
Load DC current max.	I_l = 10 A
Timered DC load	6 programs within a week period
Peak power of the solar modules	145 W_p
Batteries capacity	2x100 Ah (2x 12 V)
PC interface	RS 232

Tilt angle : changeable between 30-60 degrees with steps of 5 degrees

The solar gains expected at different tilt angles facing due south in Budapest are as follows:



Options: Solar sensor
DC, AC instruments
Meteorological monitoring systems

To need more electricity to use more equipment!