



NATIONAL CENTER FOR SCIENTIFIC RESEARCH

"DEMOKRITOS"

INSTITUTE OF NUCLEAR TECHNOLOGY AND RADIATION PROTECTION

SOLAR & ENERGY SYSTEMS LABORATORY

Head of the Laboratory: Dr. V. Belessiotis

Address: Patriarchou Gregoriou & Neapoleos,, 153 10, Agia Paraskevi Attikis, Greece

Phone: +30 210 6503815, 210 6503817, 2106503821

Fax: +30 210 65 44 592

e-mail : sollab@ipta.demokritos.gr

Athens, 03/10/2012

No.: 1216A

Energy Output Proof for Solar Collector

Based on the Test Report with code 1216/03-10-2012, issued by the «Solar & Energy Systems Laboratory» of NCSR «DEMOKRITOS» (Laboratory accredited according to the EAOT EN ISO/IEC 17025 Standard to perform testings on solar collectors and solar water-heating systems), for the

solar collector with brand name:

KFP-20



of the manufacturer:

KHALLOUF FUTURE POWER CO.

the energy output calculation was performed, according to the "Day-by-Day" procedure of ISO 9459-2 Standard using meteorological data for the city of Athens - Greece and found that:

The annual energy output of the solar collector is 677.2 kWh/m²

- Average temperature and solar radiation on collector's plane (45°) : Source Meteonorm (Global meteorological database for applied climatology)
- The temperature of the water drawn-off was of 45 °C
- Annual cold water temperature : Source EN12976-2

Responsible for testing

Director of the Laboratory

Dr. S. Babalis

Dr. V. Belessiotis


N.C.S.R "DEMOKRITOS"
SOLAR ENERGY LABORATORY
Head: Dr Vassilis Belessiotis
Tel: +210 6503815 - Fax: +210 6544592
153-10 Ag. Paraskevi - Attiki - Greece
