



Product Service

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Understanding the Issues Associated with Photovoltaic Cells Introduction

10th June 2010

TÜV Product Service
TÜV SÜD Group

TÜV®



Date: 10th June 2010

Cost: £199 or £175 if booked before 6th May 2010

Time: 9am - 5pm

Introduction

Over the last thirty years various systems have been developed to make use of the energy from the sun to reduce the demand for energy from fossil fuels. Among these are Solar Photovoltaic systems (PV) or Solar Electric. Many of these systems have now moved from novelty value to becoming mainstream practical products that can achieve substantial benefits to consumers. To date the most common use of these simple systems are for garden lights. Other systems allow us to cheaply charge mobile devices such as phones and MP3 players but now more ambitious systems are available to allow household electrical systems to be operated from solar power.

These systems use solar panels made of silicon and other elements to convert sunlight directly to electricity. There are no moving parts and these systems produce direct current (DC) electricity which can be used for directly charging batteries. Inverters can be used to convert the power to alternating current (AC) for powering typical household appliances. Inverters can also allow the systems to be connected to the electric utility distribution grid, so power can be sold to the utility when not used onsite. These grid-connected photovoltaics are now the simplest and most common PV systems installed on houses and business premises.

Course Objectives

At the end of the course, delegates will be able to:

- Understand the technology behind Photovoltaic Solar Power;
- Understand the benefits of Photovoltaic Solar Power;
- Be aware of the hazards associated with large scale Photovoltaic systems;
- Be knowledgeable of the certification schemes available from BABT/TÜV Product Service.

Course Content

- The course will discuss the technologies available for photovoltaic solar power and the benefits and problems that can be encountered in using such devices and the test and certification services available within the TÜV SÜD Group.

Benefits of Attending

People attending this course will benefit from a clear presentation of the value of solar photovoltaic energy systems and how this can benefit not just domestic users in Europe but also the wider reaching benefits to the developing World where such products are changing people's lives. The course will also address the risks associated with the usage of PV panels in larger scale power developments.



**Location: Octagon House,
Fareham,
Hampshire
P015 5RL**

Delegates

The course is suitable for compliance engineers, test engineers and marketing and sales staff seeking to gain knowledge of the potential of solar power.

Methodology

This is a very practical one-day course, which is limited to a maximum of 10 delegates. There will also be the opportunity to have a tour of our test facilities.

Presenter

Alan Binks

Alan Binks has been an employee of BABT/TÜV Product Service for twenty years and is currently the Technical Director of BABT. Previous to working at BABT he spent 21 years with a leading manufacturer of telephone equipment and exchanges. He is a Member of the Institute of Engineering and Technology (MIET) and a member of the UK Electrical Safety Committee and also a member of the UK EMC technical committee. He has lectured in the UK, Europe, Russia, China and also at the Massachusetts Institute of Technology (MIT) on electrical safety and telecommunications issues.

Why Choose TÜV Product Service

TÜV Product Service is one of the world's leading certification bodies, whose global brand is widely respected. Our expertise is supported by over 50 years' experience in testing, certification and training, and by over 100 accreditations and approvals. This experience and our enviable state of the art testing facilities at Octagon House place us in an unparalleled position to share our expertise, knowledge and experience of a wide range of products and vibration issues.

**To book a place a today,
please contact Sandie Peacock on**

Tel: 01489 558227

Email: speacock@tuvps.co.uk

Web: www.tuvps.co.uk/training



**For further information on our training services or to view our
open course programme, visit our website:**

www.tuvps.co.uk/training

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