

IGBT Module HTRB Tester Product Fact Sheet

DYN-PA-19014-V1



Power Assemblies

1 General

1.1	Test Positions per DUT cubicle	2 positions as standard, optional up to 4 or more based on device type.
1.2	Maximum test temperature	Up to 175°C
1.3	Temperature control method	Electrically heated hotplate design as standard, Oven design is optional.
1.4	Temperature uniformity	± 2°C at maximum test temperature
1.5	Temperature stability	± 0.2°C
1.6	Heat-up time	< 30 minutes
1.7	Data logging	National Instruments industrial PC with Data Acquisition. Recorded values; V _{CE} , I _{CES} , V _{GE} , T _c and T _j (by estimation).
1.8	Batch reporting	Batch reports can be generated to summarise test results and pass rates for a given batch of DUTs.

2 Electrical

2.1	Power input	220 Vac, 16 A, 1ph + E, 50/60 Hz
2.2	Maximum test voltage	Up to 10kV
2.3	Maximum leakage current	Up to 220mA
2.4	Heater power consumption	1kW per test position
2.5	Measurement accuracy	V _{CE} : ±1% V _{GE} : ±1% Temperature: ±2°C I _{CES} : ±1%

3 Mechanical

3.1	Dimensions (W x D x H)	800 x 1000 x 2000 mm
3.2	Weight	Approx. 300kg

4	Operating Conditions	
4.1	Operating location	Indoor use only
4.2	Earthing requirement	Class I Equipment with Earthed Conductor
4.3	Operational temperature	25°C ± 10°C
4.4	Storage temperature	25°C ± 35°C
4.5	Relative humidity	10% to 80%
4.6	Over voltage category	CAT II (laboratory)
4.7	Pollution grade	2 (non-conductive pollution)

5	Safety Features	
5.1	Safety Interlocks	Safety interlocks are fitted to the front and rear doors of the DUT cubicle. High voltage supply output is disabled when doors are opened.
5.2	Over-temperature protection	Over temperature protection is fitted to protect from over temperature of the DUT.
5.3	DUT protection	High voltage supply to the DUT is disabled when test fail conditions are met to protect the DUT from further damage.
5.4	Short circuit protection	In case of one of the DUT becoming short circuit during the test, the relevant HV relay will open the DUT specific supply to isolate the failed device. Other DUT test positions will not be affected.
5.5	E-stop push button	E-stop button is fitted to stop the high voltage supply in the case of an emergency.

IMPORTANT INFORMATION:

The products and information in this publication are intended for use by appropriately trained technical personnel. Due to the diversity of product applications, the information contained herein is provided as a general guide only and does not constitute any guarantee of suitability for use in a specific application. The user must evaluate the suitability of the product and the completeness of the product data for the application. The user is responsible for product selection and ensuring all safety and any warning requirements are met. Although we have endeavoured to carefully compile the information in this publication it may contain inaccuracies or typographical errors. The information is provided without any warranty or guarantee of any kind. This publication is an uncontrolled document and is subject to change without notice. When referring to it please ensure that it is the most up to date version and has not been superseded. The products are not intended for use in medical or other applications where a failure or malfunction may cause loss of life, injury or damage to property. The user must ensure that appropriate safety precautions are taken to prevent or mitigate the consequences of a product failure or malfunction. All products and materials are sold and services provided subject to Dynex's conditions of sale, which are available on request. Any brand names and product names used in this publication are trademarks, registered trademarks or trade names of their respective owners.

Warning: Counterfeit Products – There are counterfeit products on the marketplace which closely resemble Dynex's genuine products. Dynex does not support the sale of products via on-line auction houses. We will be pleased to confirm the authenticity of products if you contact Dynex Customer Service. For further advice, please refer to our Counterfeit Goods notice on our web-site.



Dynex Semiconductor Ltd. Email: contactus@dynexsemi.com
 Doddington Road, Lincoln, Main switchboard: +44 (0)1522 500 500
 LN6 3LF, United Kingdom. Sales & Marketing: +44 (0)1522 502 901

@Dynexpower
 /DynexSemiconductor
 Dynex Semiconductor Ltd

