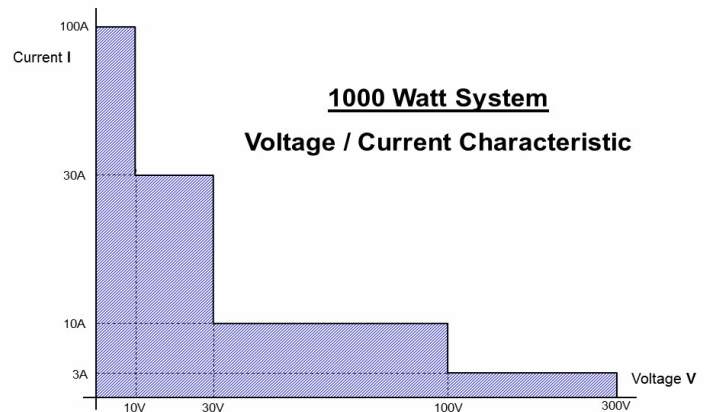


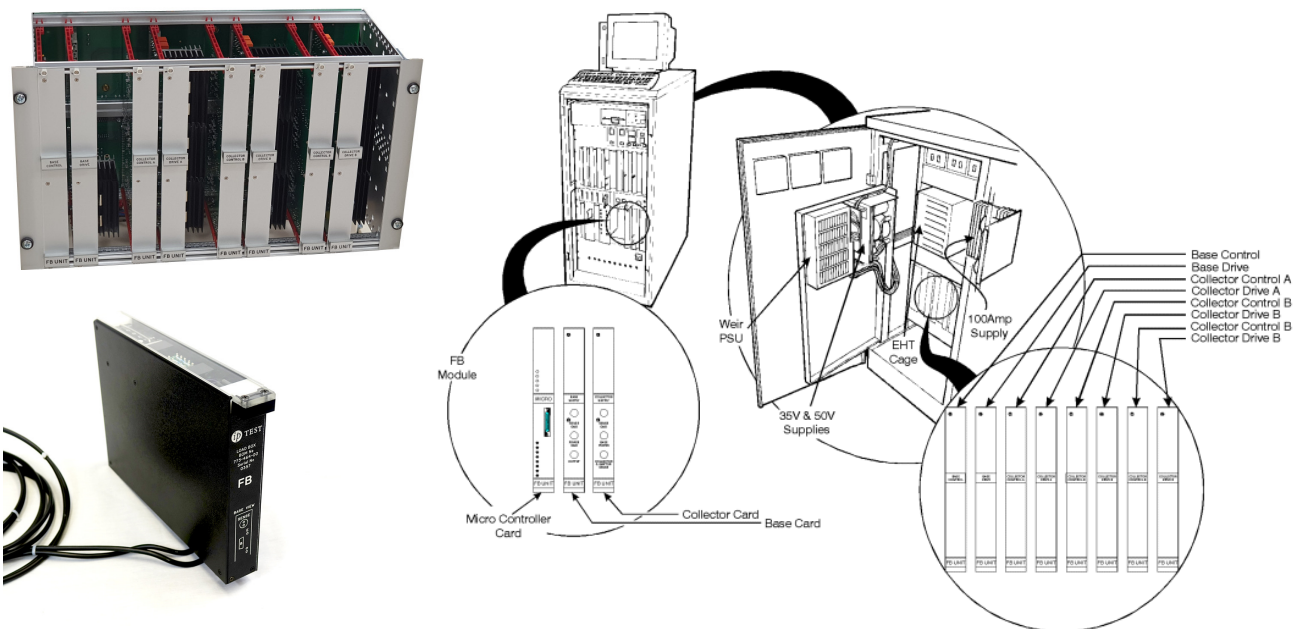
Mostrak M1 FB 300W and 1000W test station

Thermal mount-down tests (aka FBSOA, FB or dVsd) are performed on the Mostrak M1 FB test station. Two versions of the test station are available, with ratings according to the following maximum:

Power	Voltage	Current
300 W	10 V	30 A
	30 V	10 A
	100 V	3 A
1000 W	10 V	100 A
	30 V	30 A
	100 V	10 A
	300 V	3 A



The generator occupies 6U plus a 3U power supply fitted in the bottom of a Mostrak M1 system cabinet along with a 6U booster sub-rack fitted in the rear of the cabinet. A 3m umbilical cable connects the test station to a remote test-head mounted on the handler test site.



The handler-mounted FB test-head has dimensions of:
 Height inc. connectors: 250mm, width: 41mm, length including lid: 305mm.
 Approximate weight 6.5kg.

Mostrak M1 FB specifications

The FB generator consists of two modules, called the Load module and Drive module, are intended to connect to the Drain/Collector and Gate/Base respectively of a DUT.

1. Drain/Collector (Load module) ratings

The Drain/Collector ratings for the 300W and 1000W Load generator are as follows

Current			Voltage		
Range	Measure resolution	Force resolution	Range	Measure resolution	Force resolution
100A *	3mA	50mA	300V *	9mV	150mV
10A	300uA	5mA	100V	3mV	50mV
1A	30uA	500uA	30V	900uV	15mV
100mA	3uA	50uA	10V	300uV	5mV
10mA **	300nA	5uA	3V *	90uV	-

2. Base/Gate (Drive module) ratings

The Gate/Base module ratings for the 300W and 1000W test station are the same, as follows

Current			Voltage		
Range	Measure resolution	Force resolution	Range	Measure resolution	Force resolution
10A	300uA	5mA	30V	900uV	15mV
1A	30uA	500uA	10V	300uV	5mV
100mA	3uA	50uA	3V	90uV	-
10mA	300nA	5uA	1V	30uV	-
1mA	30nA	500nA			
100uA	3nA	50nA			
10uA	300pA	5nA			

3. Reference I/V

Current			Voltage	
Range	Measure resolution	Force resolution	Range	Measure resolution
100mA	3uA	50uA	30V	900uV
10mA	300nA	5uA	10V	300uV
1mA	30nA	500nA	3V	90uV
100uA	3nA	50nA	1V	30uV

4. Timings

- Power pulse 500us to 10sec
- Reference/calibration current pulse 100us to 100ms
- Delay between power pulse and second reference pulse 50us to 10ms.

Notes

- Accuracy 1% FS except *2% and **5%
- Alarms: oscillation, ps fail, avalanche
- Protection: oscillation, overcurrent, avalanche. Sources constantly monitored for change in current and tri-state of in error condition
- All ranging includes 30% ranges not shown.

Specifications are subject to change without notice.