

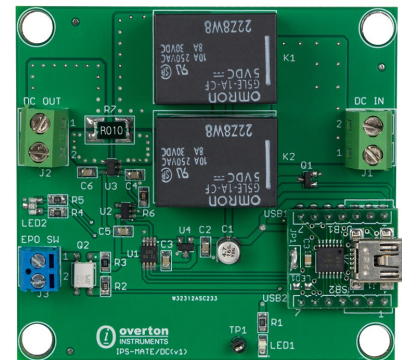
# DUT POWER SOLUTIONS

The typical starting-point for most PCB Functional Test systems is to first - apply DUT power (i.e., device-under-test). Overton Instruments, has developed a unique family of low-cost DUT power switching solutions, that bring a whole new level of automation to the test development process. Through the USB port, you can “automatically” switch DUT power On/Off, read-back both DUT voltage & current, and set a virtual circuit-breaker limit. Introducing the **DPM-MATE** (DUT Power Module), and the **IPS-MATE** (Intelligent Power Switch Module).

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**2** more reasons to automate with OI

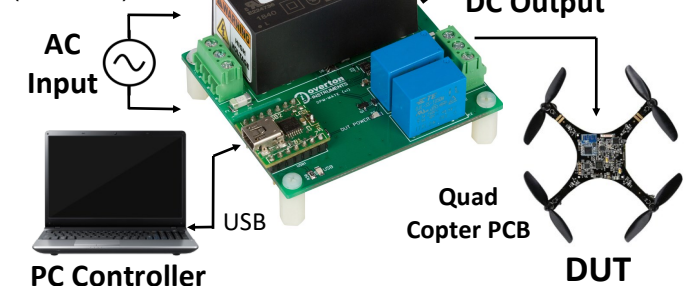


## DPM-MATE, DUT Power Modules

The DPM-MATE is an awesome collection of “smart” DUT power supply modules. These modules combine an embedded DC power brick, with a special microcontroller circuit and a standard USB port. The result is a significant advancement to the development of custom Automated Test Equipment.

The product line offers 8 standard DC output voltages (including 3.3V, 5V, 12V, 15V, 24V, 48V, &  $\pm 12V$  and  $\pm 15V$ ), current ranges from 340mA to 10Amps, and includes a wide AC input power range (85-305Vac). The modules are small and compact which are perfect for embedded applications. In a typical PCB Functional Test system, the DPM-MATE is mounted inside the Mechanical Test Fixture and is controlled by an external host computer (via USB).

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## IPS-MATE, Intelligent Power Switch Modules

Does your hardware test application need to switch AC or DC power “automatically”? Then the Intelligent Power Switch modules (from OI), are the perfect choice.

The IPS-MATE/AC is rated to switch a full 250VAC @ 10Amps, and likewise the IPS-MATE/DC is rated to switch 30VDC @ 10Amps. In the example below, a Solar Inverter PCB is being tested. On the input side, a fixed DC power supply is used to simulate a solar panel, and on the output, a power resistor is used to load the AC output. The IPS-MATE/DC is used to switch the DC power supply, and the IPS-MATE/AC is used to switch the AC load. You can also read-back voltage & current measurements, and set a virtual current breaker limit. With the IPS-MATE modules, the application possibilities are enormous, you can support Product Engineering, Functional Test, Burn-In and many others.

### DC Power Supply

