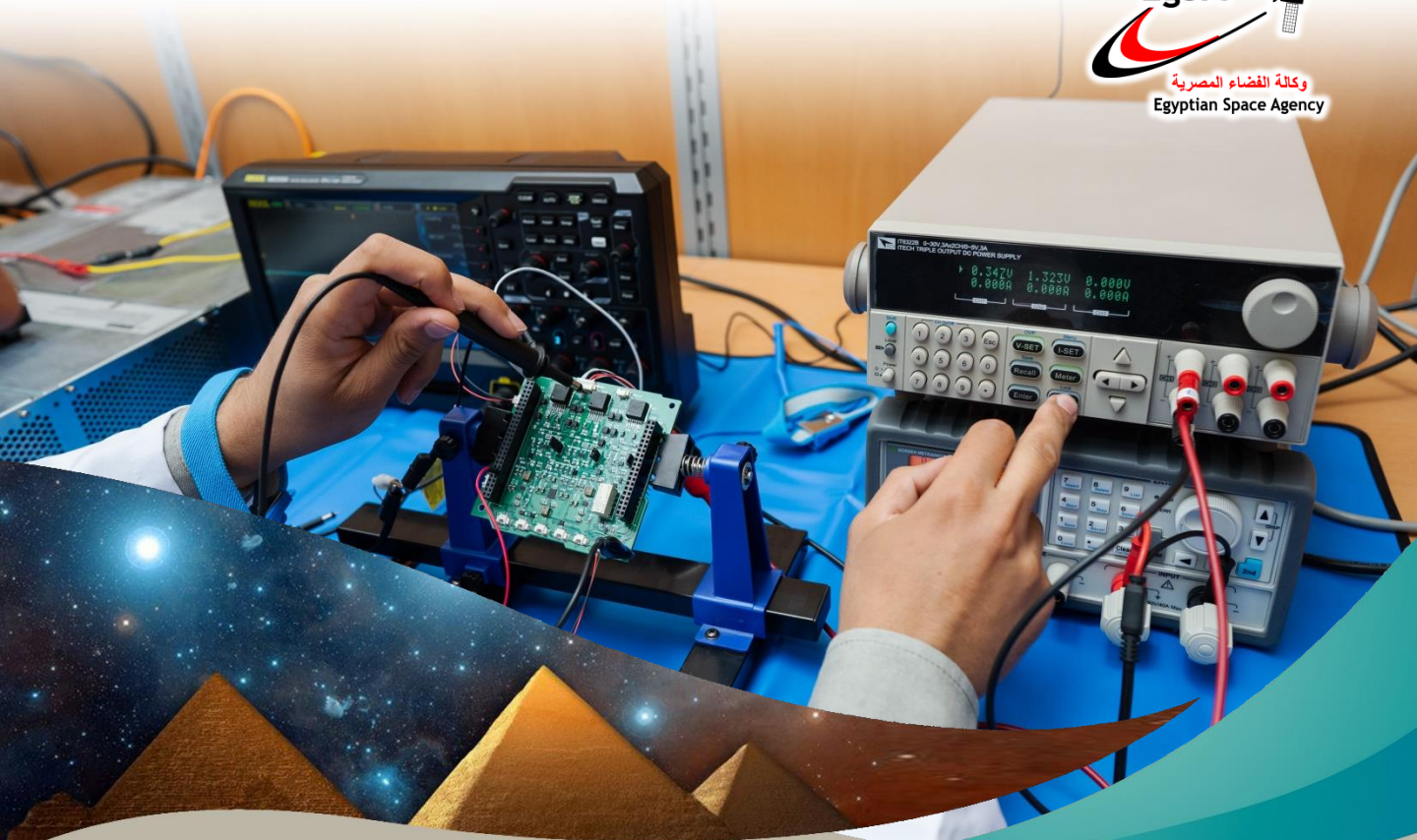


Satellite Electric Power Systems Laboratory



Services Provided:

- Design and implementation of spacecrafts electric power subsystem
- Software testing of electrical power subsystem using NI tools
- Assembly and soldering process for PCBs
- Hardware testing using various lab facilities
- Simulation and modeling of power conditioning and distribution unit of satellites
- Design of EPS firmware for various sizes of satellites

Samples from our Projects / Products:

- Power conditioning and distribution unit of NExSat-3
- Power conditioning and distribution unit of the Egyptian Universities Satellite EUS-1
- Power subsystem module of NARSSCube-1 & NARSSCube-2
- Power subsystem module of EgSACube-3 and EgSACube-4
- Energy storage module of EgSACube-3

Facilities Available:

- Keysight modular solar array simulator, model E4360A
- Rigol programmable DC power supply, model DP831A
- Rigol DC electronic load 150V/60A 350W, model Rigol DL3031
- Electrical microscope, model Kaisi 45A-BD
- Agilent technologies digital storage oscilloscope, model Rigol MSO5354
- Triple output DC power supply 0-30V, 3A, model IT6322B
- Electronic load 0-80V / 0-40A 400W, model SPL K853A
- Hakko soldering station, model FX-951
- ETNEO soldering station, model 201D ESD
- ONEZILI Ultrasonic cleaner 2L, model OZL 10A



Part of our Facilities / Services:

E4360A modular solar array simulator mainframe

Testing satellite power systems under various conditions. A specialized power supply, such as the solar array simulator (SAS), generates accurate outputs to verify the satellite power system.

Keysight E4360
Modular Solar Array Simulators
Models: E4360-62A, E4366-68A



SPL GM-K853A programmable DC electronic load

Series SPL electronic loads are high precision direct current sinks for use in research and product development, the devices are distinguished by a diverse range of functions and excellent regulating accuracy.

Rigol MSO5354, mixed signal oscilloscope

The Rigol MSO5354 is a four-channel, 350MHz digital/mixed-signal oscilloscope with a real-time sample rate of up to 8GSa/s real-time sample rate.



Rigol DP831A, programmable DC power supply

The Rigol DP831A is a very high quality programmable laboratory power supply with three switchable outputs (+8V/5A, +30V/2A and -30V/2A) and a maximum power output of 160W.

Kaisi 45A-BD (LED) digital microscope

Digital microscope with VGA camera and 8-inch screen ideal for PCB repairs and testing. With 45A BD Maximum focal length: 9.5cm Package content and Lens 05 × 1, 1.5, 2, 2.5, 3, 3.5, 4,4.5



And many others... Contact us to know more about our Services.

Address: KM 6 Middle Ring Road, 5th settlement,
New Cairo, Cairo, Egypt.
P. O. Box: Egyptian Space Agency 130
Tel: +20-2-21297950, 994 Fax: +20-2-21297993