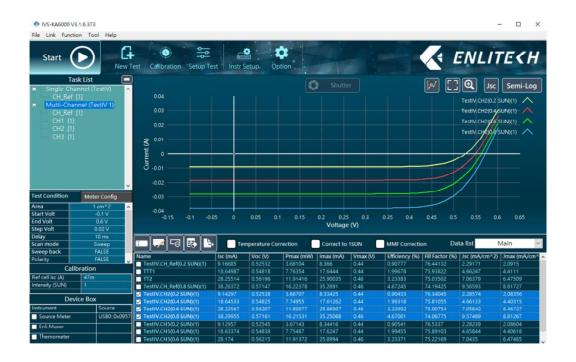


PV IV testing software: IVS-KA6000

Introduction

The Most Comprehensive IV Measuring and Analysis Software for Perovskite Solar Cells

IVS-KA6000 is a PV current-voltage (IV) testing software developed by Enlitech with over 10 years of experience. The last generation IVS-KA5000 had more than 1000 users in many laboratories around the world. IVS-KA6000 is redesigned and improved on the basis and user feedback. IVS-KA6000 can control a variety of SMUs and collect current and voltage data according to the parameters set by the user. The formulas and algorithms of the IVS-KA6000 are based on the foundation developed and published by NREL.



From the analyzing functions of IVS-KA6000, users can get the details of improving the conversion efficiency of the solar cells. Numerous laboratories adopted IVS-KA6000 consistently break the efficiency records and land on NREL's Efficiency Chart, such as ISCAS's 23.3% perovskite solar cells in 2019, UNIST's 24.8% perovskite solar cells in 2020, and ICCAS's 18% organic solar cells in 2020.

Application

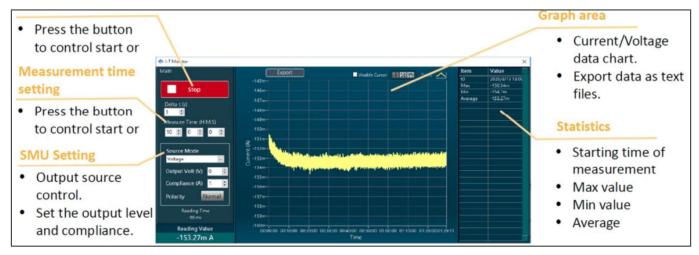
- Measurements: Isc, Voc, Jsc, Jmax, Pmax, Vmax, Imax, η, FF, Rs,Rsh
- Forward scan/ Reverse scan/ Automatic forward and reverse scanning measurement
- ◆ Light soaking & MPPT measurement
- ◆ I-t, V-t, MPPT tracking function Single-sample multi-sub-cell automatic test
- ◆ Real-time correction function according to IEC
- NREL asymptotic measurement

ENLITE

Software Interface



IVS-KA6000 software main functions.



I-t (current-time) monitoring function, which can monitor the device current or voltage variation with time.



NREL Asymptotic measurement for perovskite solar cells. IVS-KA6000 has a unique "asymptotic method" test function. The "asymptotic method" has become one of the standard methods for efficiency testing of new solar cells. IVS-KA6000 has a complete "asymptotic method" supporting scheme and automatic program control.

