



**SUN-U P.Q.C.S.**  
ENERGY TECHNOLOGY CO., LTD.

**Power  
System**

# Automatic High Voltage Stabilization System

## 🔌 What's Power Quality?

Power Quality includes voltage, current waveform and frequency of regularity in the power system. The poor power quality is caused by nature disasters, foreign object impact, human causes, equipment aging, and circuit characteristics etc. and leads to voltage and current harmonics, voltage flicker, unbalance, and sag or swell. All leads above all have harmful effects to motor and electronic equipment and machineries.

## 🔌 Voltage Sag and Swell

- ✔️ Electrical Line Voltage Sag : When current passes through electrical line, resistance, inductance, and capacitance effects can cause sag.
- ✔️ Frequency Changes : When system frequency changes, power generator output voltages also changes.
- ✔️ Load Characteristics : Load characteristics and sizes alter voltages.
- ✔️ Power generator power factor changes.

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Assist the business community to enhance energy efficiency  
Energy Reduction/ carbon reduction.

## Unstable Voltage disadvantages

## Stable Voltage Advantages

Maintain and Cost Expend Increase

PLC Parameter Distortion

Process Unstable, NPL Increase

Material Consume Cost Increase

Overall Productivity Decrease

Equip Failure Rate Increase

Equip Life Shorten

After  
Improvement



Equip Failure Rate Decrease

Equip Life Prolong

Process Stable, NPL Decrease

Material Consume Cost Decrease

Overall Productivity Increase

Maintain and Cost Expend Decrease

## Sun-U P.Q.C.S. Automatic High Voltage Stabilization System

Power supply system should provide stable rated voltage output in order for equipment to perform the best function. However, because of sag caused by electrical line or power supply equipment and lead to high voltage changes. Unstable voltage causes harmful effect to the equipment or accidents and lost.

Sun-U P.Q.C.S.- Automatic High Voltage Stabilization System automatically adjusts primary output voltage, therefore, sustains and stabilizes voltage and provides notable power saving effect.

## Product



## Power Monitoring



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Contact:

Company address : Rm.403, 4F., No.268,  
Fengping 1st. Rd., Daliao Dist.,Kaohsiung City  
831, Taiwan (R.O.C.)

Tel : 07-702-6131 Fax : 07-703-7172

Mail : master@sun-u.com.tw