

## KS833 Standard Power & Calibrator



### Features and Functions

Used for calibrating indicating instruments, AC acquisition units, multimeters, FTU, RTU, electrical measuring transducers.

Built-in Grade 0.05 high precision voltage, current, phase, power, power factor, harmonic meters;

Standard output (Grade 0.05) of voltage, ampere, phase, active power, cross-phase reactive power and real reactive power

Output current, voltage, power, phase and harmonic for closed-loop control, to ensure low wandering & annual stability rate.

Calibrating electrical energy meters (Grade 0.1)

Standard output at Grade 0.1 for 1st -19th harmonics, and standard output of Grade 0.2 for 20th -31st harmonics;

Work mode: instrument calibration output mode and standard source output mode;

Built-in RS232 interfaces, software upgrading and data transfer can be done without opening the box;

Storage capacity up to 1,000 calibrated meters' data.

Through software you can round off the calibrated data, print verification report and calibration data.

### Specifications

Output & measure AC voltage	
Available steps:	10 V, 30 V, 100 V, 300 V, 750 V; automatic switch is possible between the steps.
Adjustment range:	Step x (0 ... 120) %
Adjustment fineness:	Step x 0.01%
Resolving power:	Step x 0.01%
Accuracy:	0.05%RG
Stability:	0.01% / 1min
Output & measure AC current	
Available steps:	100 mA, 1 A, 5 A, 10 A, 25 A; automatic switch is possible between the steps.
Adjustment range:	Step x (0 ... 120) %
Adjustment fineness:	Step x 0.01%
Resolving power:	Step x 0.01%
Accuracy:	0.05%RG
Stability:	0.01% / 1min

<b>Output &amp; measure AC power</b>	
Adjustment fineness:	Step x 0.01%
Resolving power:	Step x 0.01%
Accuracy:	0.05%RG (F>0.5)
Stability:	0.01% / 1min
<b>Output &amp; measure AC voltage and current frequency</b>	
Frequency range:	45,000 ... 65,000 Hz
Adjustment fineness:	0.001 Hz
Accuracy:	0.01%RD
<b>Output &amp; measure AC phase</b>	
Phase shift range:	0.00° ... 359.99°
Resolving power:	0.01°
Adjustment fineness:	0.01
Accuracy:	0.05°
<b>Output &amp; measure AC power factor</b>	
Output range:	-1 ... 0 ... +1
Measuring accuracy:	0.0005
Adjustment fineness:	0.0001
<b>Output &amp; measure harmonic</b>	
Harmonic setting:	2 ... 31
Harmonic content: voltage, current	≤30% (as against fundamental)
Harmonic output precision:	0.1% (1st...19th, as against fundamental) 0.2% (20th ...31st , as against fundamental)
Harmonic phase:	0 ... 360°, adjustable
Distortion in AC voltage & current output	< 0.2% (non-capacitance load)
Max output load capacity of AC voltage & current	Voltage output 25 VA, current output 25 VA
<b>Output &amp; measure DC voltage</b>	
Steps available:	100 mV, 1 V, 10 V, 30 V, 100 V, 300 V, 750 V
Adjustment range:	Step x (0 ... 120) %, (0%...110% output range at Step 750 V)
Resolving power:	Step x 0.01%
Adjustment fineness:	Step x 0.01%
Accuracy:	0.05%RG
Stability:	0.01% / 1min
<b>Output &amp; measure DC current</b>	
Steps available:	1 mA, 10 mA, 100 mA, 1 A, 5 A, 10 A, 25 A
Adjustment range:	Step x (0 ... 120) %
Accuracy:	0.05%RG
Stability:	0.01% / 1min