

Since 1982

Reliable and accurate

VOLTCRAFT

TESTERS DESIGNED FOR LABORATORIES AND QUALITY ASSURANCE



VOLTCRAFT DOV SERIES IN COMPACT DESIGN

VOLTCRAFT's new DOV series comprises compact high-performance digital oscilloscopes designed for educational institutions, laboratories, the industries and tradespeople on the move. Depending on the model, they come with bandwidths between 70 and 250 MHz and a sample rate of 1.25 GS/s. This ensures accurate signal capture. Moreover, all eight models feature a touchscreen and a wide measurement functions.



The DOV series features a variety of advanced technology:

- 2 or 4 analogue input channels
- 12 bit ADCs
- Large memory depth (50 Mpts or 100 Mpts)
- 17.7 cm (7") touchscreen and HDMI® port
- Bandwidth: 70 MHz to 250 MHz
- Interfaces: USB, LAN, HDMI®
- Segmented memory acquisition of up to 700.000 wfms/s
- Wide range of triggers and decoder modes
- Cursor measurement functions
- Mathematical functions

VOLTCRAFT DOV Series – A comparison



Model	DOV702	DOV704	DOV1002	DOV1004
Bandwidth	70MHz	70MHz	100MHz	100MHz
Channel	2	4	2	4
Logic analyzer 16-ch	-	-	-	-
AWG	-	-	-	-
Multitouch screen	177mm / 7"	177mm / 7"	177mm / 7"	177mm / 7"
ADC bits	12 bits	12 bits	12 bits	12 bits
Max sample rate	1.25 GS/s	1.25 GS/s	1.25 GS/s	1.25 GS/s
Rise time	≤ 5 ns	≤ 5 ns	≤ 3.5 ns	≤ 3.5 ns
Max record length	50M	50M	50M	50M
Waveform capture rate	50.000 wfms/s	50.000 wfms/s	50.000 wfms/s	50.000 wfms/s
Waveform capture rate (segment operation)	700.000 wfms/s	700.000 wfms/s	700.000 wfms/s	700.000 wfms/s
Vertical sensitivity	500 μV/div -10 V/div	500 μV/div -10 V/div	500 μV/div -10 V/div	500 μV/div -10 V/div
Scanning speed (s/div)	1 ns/div - 1000s/div, step by 1-2-5	1 ns/div - 1000s/div, step by 1-2-5	1 ns/div - 1000s/div, step by 1-2-5	1 ns/div - 1000s/div, step by 1-2-5
Pass/fail function	✓	✓	✓	✓
Trigger & Decoding	RS232/UART, I2C, SPI, LIN, CAN	RS232/UART, I2C, SPI, LIN, CAN	RS232/UART, I2C, SPI, LIN, CAN	RS232/UART, I2C, SPI, LIN, CAN
Trigger type	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger
Cursor measurement	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ ZOOM window, based on screen percentage	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ ZOOM window, based on screen percentage	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ ZOOM window, based on screen percentage	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ ZOOM window, based on screen percentage
Mathematical operations	+, -, *, /, &, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, Co-Sin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)	+, -, *, /, &, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, Co-Sin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)	+, -, *, /, &, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, Co-Sin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)	+, -, *, /, &, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, Co-Sin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)
Interfaces	USB, LAN, HDMI®	USB, LAN, HDMI®	USB, LAN, HDMI®	USB, LAN, HDMI®
Product ID	3350781-V2	3350782-V2	3350783-V2	3350784-V2

N.B.: More details about returning old batteries or rechargeables are available at conrad.com
For more details and the latest information, please visit our online shop at conrad.com

VOLTcraft DOV Series – A comparison



Model	DOV1254 LA	DOV1254F LA	DOV2504 LA	DOV2504F LA
Bandwidth	125MHz	125MHz	250MHz	250MHz
Channel	4	4	4	4
Logic Analyzer 16-ch	✓	✓	✓	✓
AWG	-	✓	-	✓
Multitouch Screen	177mm / 7"	177mm / 7"	177mm / 7"	177mm / 7"
ADC bits	12 bits	12 bits	12 bits	12 bits
Max sample rate	1.25 GS/s	1.25 GS/s	1.25 GS/s	1.25 GS/s
Rise time	≤ 2.8 ns	≤ 2.8 ns	≤ 1.4 ns	≤ 1.4 ns
Max record length	100M	100M	100M	100M
Waveform capture rate	50.000 wfms/s	50.000 wfms/s	50.000 wfms/s	50.000 wfms/s
Waveform capture rate (segment operation)	700.000 wfms/s	700.000 wfms/s	700.000 wfms/s	700.000 wfms/s
Vertical sensitivity	500 µV/div -10 V/div	500 µV/div -10 V/div	500 µV/div -10 V/div	500 µV/div -10 V/div
Scanning speed (s/div)	1 ns/div - 1000s/div, step by 1-2-5	1 ns/div - 1000s/div, step by 1-2-5	1 ns/div - 1000s/div, step by 1-2-5	1 ns/div - 1000s/div, step by 1-2-5
Pass/fail function	✓	✓	✓	✓
Trigger & Decoding	RS232/UART, I2C, SPI, LIN, CAN	RS232/UART, I2C, SPI, LIN, CAN	RS232/UART, I2C, SPI, LIN, CAN	RS232/UART, I2C, SPI, LIN, CAN
Trigger type	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger	Edge trigger, Video trigger, Pulse trigger, Slope trigger, Runt trigger, Windows trigger, Timeout trigger, Nth trigger, Logic trigger, RS232/UART trigger, I2C trigger, SPI trigger, CAN trigger, LIN trigger
Cursor measurement	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ZOOM window, based on screen percentage	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ZOOM window, based on screen percentage	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ZOOM window, based on screen percentage	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor, support XY/FFT/ZOOM window, based on screen percentage
Mathematical operations	+, -, *, /, &&, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, CoSin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)	+, -, *, /, &&, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, CoSin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)	+, -, *, /, &&, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, CoSin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)	+, -, *, /, &&, , ^, !, Tan, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Sine, CoSin, user-defined function, digital filter (low pass, high pass, band pass, band reject), FFT(Vrms, dBVrms, Radians, Degrees)
Interfaces	USB, LAN, HDMI®	USB, LAN, HDMI®	USB, LAN, HDMI®	USB, LAN, HDMI®
Product ID	3350785-V2	3350787-V2	3350791-V2	3350792-V2

Function generator: technical details (applies to DOV 1254F LA and DOV 2504 F LA only)

Channels	1
Sample rates	160 MSa/s
Vertical resolution	14 Bits
Frequency (max.)	30 MHz
Amplitude (output)	High Z 50 Ω 2 mVpp - 10 Vpp (≤10 MHz), 2 mVpp - 5 Vpp (≤30 MHz) 1 mVpp - 5 Vpp (≤10 MHz), 1 mVpp - 2,5 Vpp (≤30 MHz)
Impedance (output)	50 Ω (typical)
Waveforms	Sine, Square, Rise, Impulse, Noise, Arbitrary
Modulation types	AM, FM, PM, FSK

Logic probe for DOV oscilloscopes featuring logic analyzers:



Model	DOV-PP116
Bandwidth	200 MHz
Measurement category	CAT I
Threshold range	±20,0 V, 10 mV increments
Threshold selection	TTL, CMOS, ECL, PECL, user-defined
Vertical resolution	1 bit
Lag (max.)	± 5 ns
Product ID	3402716-V2

PROGRAMMABLE LINEAR POWER SUPPLY UNITS

VOLTCRAFT's DLP series comprises programmable DC power supply units that generate up to 378 watts via three independable channels and come with a datalogger function. Selectable voltage and amperage output makes them the perfect choice for all testing and R&D tasks. Available functions include recording current and voltage over time, up to 100 group timers (to define the voltage curve), a 4" high-resolution display and overvoltage/surge protection. Moreover USB, RS232 and LAN interfaces provide flexibility when it comes to using these PSUs for process automation.

VOLTCRAFT DLP Series with datalogger function

NEW



N.B.: More details about returning old batteries or rechargeables are available at conrad.com. For more details and the latest information, please visit our online shop at conrad.com.

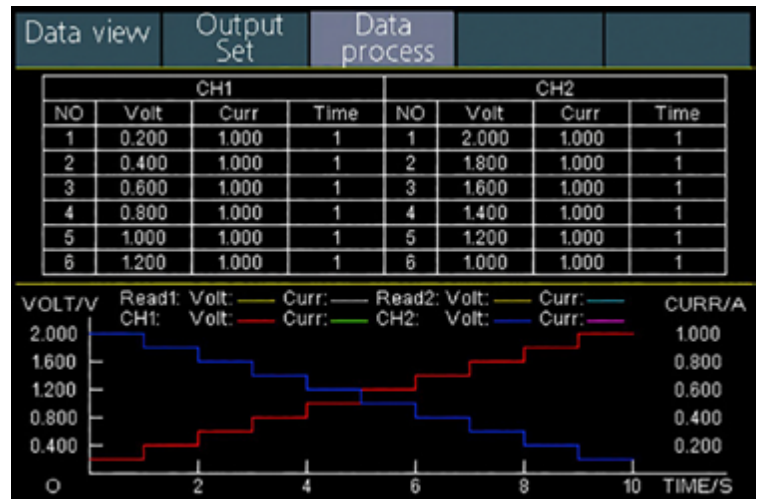


For a full list of SMPSUs



For a full list of linear PSUs

- Three channels with independent settings
- Low ripple
- Overvoltage/surge protection
- Operating modes: single, parallel, serial
- Auto-cooling
- Interfaces: USB, RS232 and LAN
- Supports SCPI



Voltage output programmable for channel 1 and 2.



The VOLTcraft DLP Series – A comparison

Model	DLP-3303	DLP-3306	DLP-3603
Voltage output CH1 and CH2	0 - 30 V / DC	0 - 30 V / DC	0 - 60 V / DC
Current output CH1 and CH2 (max)	0 - 3 A	0 - 6 A	0 - 3 A
Power output (max) (for CH1 and CH2)	90 W	180 W	180 W
Power output CH3	0 - 6 V / DC	0 - 6 V / DC	0 - 6 V / DC
Current output CH3 (max)	0 - 3 A	0 - 3 A	0 - 3 A
Power output CH3 (max)	18 W	18 W	18 W
Ripple CH1 and CH2	≤ 4mVp-p	≤ 4mVp-p	≤ 4mVp-p
Load change	≤ 0,01 % + 3 mV	≤ 0,01 % + 3 mV	≤ 0,01 % + 3 mV
Cooling method	Fan	Fan	Fan
4 mm safety sockets	Yes	Yes	Yes
PG safety socket	Yes	Yes	Yes
Ports	USB Host, USB Device, RS232, LAN, supports USB TMC protocol	USB Host, USB Device, RS232, LAN, supports USB TMC protocol	USB Host, USB Device, RS232, LAN, supports USB TMC protocol
Dimensions (WxHxT)	250 mm × 158 mm × 358 mm	250 mm × 158 mm × 358 mm	250 mm × 158 mm × 358 mm
Weight	approx. 9,8 kg	approx. 12,0 kg	approx. 12,0 kg
Features	Programmable output, datalogger function, CH1 and CH2 can be used in serial, parallel and monitoring mode	Programmable output, datalogger function, CH1 and CH2 can be used in serial, parallel and monitoring mode	Programmable output, datalogger function, CH1 and CH2 can be used in serial, parallel and monitoring mode
Product ID (factory-calibrated)	2619139-V2	2619140-V2	2619141-V2

Full product details are available at [conrad.com](https://www.conrad.com)

SWITCH-MODE POWER SUPPLY UNITS

VOLTCRAFT's switch-mode power supply units (SMPSUs) are reliable and versatile DC power sources widely used in electric engineering and other professional tasks. Their compact design and high efficiency ensures steady low-noise voltage supply that can be fully adjusted to meet a large range of requirements. Whether it's R&D or MRO, power supply units by VOLTCRAFT stand for accuracy, user friendliness and sturdiness. Moreover, they come with variety of power settings and ports which makes them the perfect choice for all those who look for quality and flexibility.

The VOLTCRAFT SPS Series – A comparison



SPS Series

Model	SPS-1525	SPS-1540	SPS-1560
Voltage DC	0 - 15 V	0 - 15 V	0 - 15 V
Current max.	25 A	40 A	60 A
Power output	375 W	600 W	900 W
Ripple	10 mV	10 mV	40 mV
Controller tolerance at 100 % load change	230 mV	230 mV	n.a.
4 mm sockets (front)	up to 25 A	up to 40 A	up to 5 A
High-current output (rear)	-	-	up to 60 A
Sense input (voltage re-adjustment)	-	-	✓
Remote control (0 ... 5 V)	-	-	Voltage
Remote control (ext. potentiometer)	-	-	Voltage
Fixed voltage (switch mode)	13,8 V	13,8 V	-
Fan	✓	✓	✓

Product ID	511568-V2	511569-V2	511570-V2
------------	-----------	-----------	-----------

The VOLTCRAFT HPS Series – A comparison



HPS Series

Model	HPS-11530	HPS-11560	HPS-13015	HPS-13030	HPS-16010
Voltage DC	0 - 15 V	0 - 15 V	0 - 30 V	0 - 30 V	0 - 60 V
Current max.	30 A	60 A	15 A	30 A	10 A
Power output	450 W	900 W	450 W	900 W	600 W
Ripple	5 mV	5 mV	5 mV	5 mV	5 mV
Controller tolerance at 100 % load change	50 mV	50 mV	50 mV	50 mV	50 mV
4 mm sockets (front)	up to 5 A	up to 5 A	up to 5 A	up to 5 A	up to 5 A
High-current output (rear)	up to 30 A	up to 60 A	up to 15 A	up to 30 A	up to 10 A
Sense input (voltage re-adjustment)	-	✓	-	-	-
Remote control (0 ... 5 V)	Voltage/current	Voltage/current	Voltage/current	Voltage/current	Voltage/ current
Remote control (ext. potentiometer)	Output on/off	Output on/off	Output on/off	Output on/off	Output on/ off
Fixed voltage (switch mode)	3-presets memory	3-presets memory	3-presets memory	3-presets memory	3-presets memory
Fan	✓	✓	✓	✓	✓

Product ID	512319-V2	512335-V2	512321-V2	512306-V2	512322-V2
------------	-----------	-----------	-----------	-----------	-----------

N.B.: More details about returning old batteries or rechargeables are available at conrad.com
For more details and the latest information, please visit our online shop at conrad.com

The VOLTcraft PPS Series – A comparison

SMPSUs



513912

PPS Series

Model	PPS-11810	PPS-13610	PPS-11360	PPS-16005	PPS-11603	PPS-11815
Voltage DC	0 - 18 V	0 - 18 V	0 - 36 V	0 - 36 V	0 - 60 V	0 - 60 V
Current max.	10 A	20 A	5 A	10 A	2,5 A	5 A
Power output	180 W	360 W	180 W	360 W	150 W	300 W
Ripple	5 mV	5 mV	5 mV	5 mV	5 mV	5 mV
Controller tolerance at 100 % load change	50 mV	50 mV	50 mV	50 mV	50 mV	50 mV
4 mm sockets (front)	up to 5 A	up to 5 A	up to 5 A	up to 5 A	up to 2,5 A	up to 5 A
High-current output (rear)	up to 10 A	up to 20 A	up to 5 A	up to 10 A	up to 2,5 A	up to 5 A
Sense input (voltage re-adjustment)	-	-	-	-	-	-
Remote control (0 ... 5 V)	USB	USB	USB	USB	USB	USB
Programmable	Voltage/current	Voltage/current	Voltage/current	Voltage/current	Voltage/current	Voltage/current
Remote control (ext. potentiometer)	Voltage/current	Voltage/current	Voltage/current	Voltage/current	Voltage/current	Voltage/current
Remote control (contact)	Output on/off	Output on/off	Output on/off	Output on/off	Output on/off	Output on/off
Fixed voltage (switch mode)	3-presets memory	3-presets memory	3-presets memory	3-presets memory	3-presets memory	3-presets memory
Fan	✓	✓	✓	✓	✓	✓
Product ID	513910-V2	513913-V2	513911-V2	513914-V2	513912-V2	513915-V2

The VOLTcraft TOPS Series – A comparison

TOPS Series

Model	TOPS-3205N	TOPS-3363N
Voltage DC	0,8 - 20 V/DC	0,8 - 36 V/DC
Current max.	0,1 - 5 A	0,1 - 3 A
Power output	100 W	100 W
Ripple	≤100 mV	≤100 mV
Controller tolerance at 10 to 90 % load change	70 mV	70 mV
4 mm sockets (front)	✓	✓
USB-C® output (AUX 1)	5 V/DC, 3 A ; 9 V/DC, 2 A ; 12 V/DC, 1,6 A	5 V/DC, 3 A ; 9 V/DC, 2 A ; 12 V/DC, 1,6 A
USB output (AUX 2)	5 V/DC, 2 A max	5 V/DC, 2 A max
Remote control (USB)	Voltage/current	Voltage/current
Cooling method	Convection	Convection
Protected against	Short circuit, overload, overheating, OVP (monitored)	Short circuit, overload, overheating, OVP (monitored)
Weight	2 kg	2 kg
Dimensions (W X H X D)	71 x 165 x 265 mm	71 x 165 x 265 mm
Product ID	3089717-V2	3089718-V2



3089718

Full product details are available at [conrad.com](https://www.conrad.com)

Daily price updates and product availabilities: [conrad.com](https://www.conrad.com)

VOLTCRAFT High-Efficiency Switch-Mode Power Supply Units



The VOLTCRAFT DPPS Series – A comparison

DPPS Series					
Model	DPPS-16-30	DPPS-16-40	DPPS-16-60	DPPS-32-15	DPPS-32-20
Voltage DC	0 - 16 V	0 - 16 V	0 - 16 V	0 - 32 V	0 - 32 V
Current max.	30 A	40 A	60 A	15 A	20 A
Power output	480 W	640 W	960 W	480 W	640 W
Ripple	5 mV	5 mV	5 mV	5 mV	5 mV
Controller tolerance at 100 % load change	50 mV	50 mV	50 mV	50 mV	50 mV
4 mm sockets (front)	up to 5 A	up to 5 A	up to 5 A	up to 5 A	up to 5 A
High-current output (rear)	up to 30 A	up to 40 A	up to 60 A	up to 15 A	up to 20 A
Sense input (voltage re-adjustment)	-	-	✓	-	-
Programmable	USB	USB	USB	USB	USB
Remote control (0 ... 5 V)	Voltage/current	Voltage/current	Voltage/current	Voltage/current	Voltage/current
Remote control (ext. potentiometer)	Voltage/current	Voltage/current	Voltage/current	Voltage/current	Voltage/current
Remote control (contact)	Output on/off	Output on/off	Output on/off	Output on/off	Output on/off
Fixed voltage (switch mode)	3-presets memory	3-presets memory	3-presets memory	3-presets memory	3-presets memory
Fan	✓	✓	✓	✓	✓
Product ID	1086555-V2	1086559-V2	1086562-V2	1086556-V2	1086560-V2



The VOLTCRAFT DPPS Series – A comparison

DPPS Series				
Model	DPPS-32-30	DPPS-60-8	DPPS-60-10	DPPS-60-15
Voltage DC	0 - 32 V	0 - 60 V	0 - 60 V	0 - 60 V
Current max.	30 A	8 A	10 A	15 A
Power output	960 W	480 W	600 W	900 W
Ripple	5 mV	5 mV	5 mV	5 mV
Controller tolerance at 100 % load change	50 mV	50 mV	50 mV	50 mV
4 mm sockets (front)	up to 5 A	up to 5 A	up to 5 A	up to 5 A
High-current output (rear)	up to 30 A	up to 8 A	up to 10 A	up to 15 A
Sense input (voltage re-adjustment)	-	-	-	-
Programmable	USB	USB	USB	USB
Remote control (0 ... 5 V)	Voltage/current	Voltage/current	Voltage/current	Voltage/current
Remote control (ext. potentiometer)	Voltage/current	Voltage/current	Voltage/current	Voltage/current
Remote control (contact)	Output on/off	Output on/off	Output on/off	Output on/off
Fixed voltage (switch mode)	3-presets memory	3-presets memory	3-presets memory	3-presets memory
Fan	✓	✓	✓	✓
Product ID	1086563-V2	1086558-V2	1086561-V2	1086564-V2



1182103

The VOLTcraft CPPS Series – A comparison

CPPS Series

Model	CPPS-160-42	CPPS-320-42	CPPS-160-84
Voltage DC	0 - 42 V	0 - 42 V	0 - 84 V
Current max.	0 - 10 A	0 - 20 A	0 - 5 A
Power output	160 W	320 W	160 W
Ripple	80 mV	80 mV	80 mV
Controller tolerance at 100 % load change	80 mV	80 mV	80 mV
4 mm sockets (front)	up to 10 A	up to 20 A	up to 5 A
High-current output (rear)	-	-	-
Sense input (voltage re-adjustment)	✓	✓	✓
Programmable	USB	USB	USB
Remote control (0 ... 5 V)	Voltage/current	Voltage/current	Voltage/current
Remote control (ext. potentiometer)	Voltage/current	Voltage/current	Voltage/current
Remote control (contact)	Output on/off	Output on/off	Output on/off
Fixed voltage (switch mode)	3-presets memory	3-presets memory	3-presets memory
Fan	✓	✓	✓
Product ID	1182100-V2	1367575-V2	1182103-V2



2446363

The VOLTcraft DSP Series – A comparison

DSP Series

Model	DSP-3005	DSP-3010	DSP-6010
Voltage output	0 - 30 V/DC	0 - 30 V/DC	0 - 60 V/DC
Current output	0 - 5 A	0 - 10 A	0 - 10 A
Power output (max)	150 W	300 W	300 W
Efficiency	85 %	85 %	85 %
Ripple (Vp-p)	≤30 mV	≤50 mV	≤50 mV
Features	Programmable output waveforms over 10 adjustable points 4 memory slots (U, I, OVP and OCP) Graphic data visualisation (curve)	Programmable output waveforms over 10 adjustable points 4 memory slots (U, I, OVP and OCP) Graphic data visualisation (curve)	Programmable output waveforms over 10 adjustable points 4 memory slots (U, I, OVP and OCP) Graphic data visualisation (curve)
Display resolution	240 × 320 pixels	240 × 320 pixels	240 × 320 pixels
Cooling method	Fan cooler, temperature-regulated	Fan cooler, temperature-regulated	Fan cooler, temperature-regulated
Interface	USB-B, SCPI compatibility	USB-B, SCPI compatibility	USB-B, SCPI compatibility
USB charger port	5 V/DC max. 1 A, USB-A port	5 V/DC max. 1 A, USB-A port	5 V/DC max. 1 A, USB-A port
Dimensions (WxHxL)	200mm × 92mm × 182mm	200mm × 92mm × 182mm	200mm × 92mm × 182mm
Product ID	2446362-V2	2446363-V2	2446087-V2

Full product details are available at conrad.com

BENCH MULTIMETERS / ELECTRONIC BALLASTS

VOLTCRAFT’s bench multimeters are essential for electrical measurement tasks in laboratories and workshops. These devices come with a large number of functions including voltage, amperage and resistance testing - vital for any maintenance and troubleshooting jobs in industrial settings.

VOLTCRAFT’s electronic ballasts are versatile diagnostics tools that enable precise load testing of current sources. They feature a variety of load control and protection modes which ensures an accurate analysis of power sources in R&D and MRO.

VOLTCRAFT Bench Multimeters – A comparison



2203068



Application example 2203066

Model	VC-7055BT	VC-7060BT	VC-7200BT
Counts	55.000	60.000	200.000
Samples per second	Up to 64	Up to 150	Up to 150
Basic accuracy	0.025 %	0.02 %	0.015 %
True RMS	✓	✓	✓
Measurement category	CAT I 1000 V CAT II 600 V	CAT I 1000 V CAT II 600 V	CAT I 1000 V CAT II 600 V
Interfaces	RS-232 (SCPI)	LAN / USB / RS232 (SCPI) AUX output	LAN / USB / RS232 (SCPI) AUX output
2- and 4-core resistance testing	✓	✓	✓
Datalogger	✓	✓	✓
Features	Data logging manually per button or automatically via a user-defined time interval	Data logging manually per button or automatically via a user-defined time interval Temperature measurement of temperature sensors (e.g. K-type) Trend analysis	Data logging manually per button or automatically via a user-defined time interval Temperature measurement of temperature sensors (e.g. K-type) Trend analysis
Dimensions (L x W x H)	295 x 235 x 110 mm	295 x 235 x 110 mm	295 x 235 x 110 mm
Product ID (factory-calibrated)	2203066-V2	2203067-V2	2203068-V2
Product ID (ISO-calibrated)	2574710-V2	-	2468278-V2
Product ID (DAkkS-accredited laboratory)	-	-	2468859-V2

N.B.: More details about returning old batteries or rechargeables are available at conrad.com
For more details and the latest information, please visit our online shop at conrad.com



Model		EL-1400	EL-1200
Specification			
Input voltage range (DC)	V	0-150	0-150
Input current range	A	0-40	0-20
Input power range	W	400	200
Minimum voltage	V	1.1 V at 40 A	0.6 V at 20 A
Constant voltage mode			
Range	V	0-150	0-150
Resolution	mV	1	1
Accuracy		0.05 % + 0.05 % FS	0.05 % + 0.05 % FS
Constant resistance mode			
Range	Ω	0.05-7.5 k	0.05-7.5 k
Accuracy		0.1 % + 0.01 % R	0.1 % + 0.01 % R
Constant power mode			
Range	W	400	200
Resolution	mW	10	10
Accuracy		0.1 % + 0.1 % FS	0.1 % + 0.1 % FS
Dynamic mode			
TI&T2		0.1 ms-50 s	0.1 ms-50 s
Rising/sloping edge		0.01 A/ms-2000 A/ms	0.01 A/ms-2000 A/ms
Rise time	us	20 us	20 us
Voltage readout value			
Range	V	0-150	0-150
Resolution	mV	1	1
Accuracy		0.03 % +0.025 % FS	0.03 % + 0.025 % FS
Power readback value			
Range	W	0-400	0-200
Resolution	mW	10	10
Accuracy		0.1 % + 0.1 % FS	0.1 % + 0.1 % FS
Protective function			
OPP	W	>OPP value 10 ms protection	>OPP value 10 ms protection
OVP	V	>OVP value 0.1 ms protection	>OVP value 0.1 ms protection
OCP	V	>OCP value 0.1 ms protection	>OCP value 0.1 ms protection
Overheat protection		85 °C	85 °C
Short-circuit			
Current (CC)	A	>40	>20
Voltage (CV)	V	0	0
Resistance (CR)	mΩ	50	50
AC-Parameter			
Voltage range	V	110 V ±10 % or 220 V ±10 %	110 V ±10 % or 220 V ±10 %
Frequency range	Hz	50/60 Hz	50/60 Hz
Connector			
Supports RS-232 (SCPI)			
System use			
Parallel wiring	Yes, supports up to 10 parallel-wired units (max system power: 4kW)		
General information			
Heat dissipation	Built-in smart fan for constant air cooling		
Safety standards	Complies with EU 89/336/EEC EMC directive for Class A test equipment		
Voltage tolerance (output against earth)		500 V/DC/1 mA	500 V/DC/1 mA
Voltage tolerance (input against earth)		1.5 KV/AC/5 mA	1.5 KV/AC/5 mA
Dimensions (LxWxH)		375 mm x 215 mm x 88 mm	375 mm x 215 mm x 88 mm
Net weight (kg)		5	4,2
Product ID		3364227-V2	3364228-V2

Full product details are available at conrad.com

CALIBRATORS

VOLTCRAFT's calibrators not only take accurate readings, they are also a source of exact reference values. The STK-3000, for instance, supplies DC voltage, DC current, frequency and pulses and then measures the aforementioned units accurately. The strengths of the MFK-2000 include simulation, testing resistance sensors and thermoelements and being compatible with a huge range of probe types.

VOLTCRAFT STK-3000 Current Loop Calibrator



Model	STK-3000	
Operating voltage	6x Ni-MH AA battery	
Operating temperature	-10 to +55 °C	
Dimensions (L x W x H mm)	104 x 224 x 63	
Weight	approx. 650 g (incl. batteries)	
Measurement mode		Accuracy
mVDC	-10 mV to 220 mV	±0,02 % +5
Voltage	0 - 30 V/DC	±0,02 % +2
DC	0 - 24 mA	±0,02 % +2
Frequency	1 Hz - 100 kHz	±0,01 % +1
Pulse	≤250 Ω audio signal	-
Supply mode (source)		Accuracy
mVDC	-10 mV to 110 mV	±0,02 % +10
Voltage DC	0 - 10 V	±0,02 % +10
mA DC	0 - 24 mA	±0,02 % +2
Frequency	0,20 Hz - 20 kHz	±0,01 % +1
Pulse	1 - 10.000 Hz	-
24V loop voltage supply	Yes	
Step and slope function	Yes	
Interface	USB	
Product ID (factory-calibrated)	2389433-V2	
Product ID (ISO-calibrated)	3088271-V2	

N.B.: Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

N.B.: More details about returning old batteries or rechargeables are available at [conrad.com](https://www.conrad.com). For more details and the latest information, please visit our online shop at [conrad.com](https://www.conrad.com).

VOLTCRAFT MFK-2000 Temperatur Calibrator

Calibrators



Model	MFK-2000	
Operating voltage	6x Ni-MH AA battery	
Operating temperature	-10 to +55 °C	
Dimensions (W x H x D)	104 x 224 x 63 mm	
Weight	approx. 650 g (incl. batteries)	
Measurement mode		
mV	0 - 500 mV/DC	±0,02 % +5
Voltage	0 -30 V/DC	±0,02 % +2
Continuity	≤50 Ω audio signal	-
Resistance	0 - 5000Ω	±0,05 % +10
Resistance probe measurements	Type	
	Pt100	-200 to 850 °C (4W) ±0,3 °C
	Pt200	100 to 300 °C ±0,9 °C
	Pt500	-200 to 500 °C (4W) ±0,3 °C
	Pt1000	-200 to 100 °C (4W) ± 0,2 °C
	Cu10	-100 to 260 °C ±1,8 °C
	Cu50	-50 to 150 °C ±0,7°C
	Cu100	-50 to 150 °C (4W) ± 0,25°C
	PT100-392	-200 to 800 °C (4W) ±0,3 °C
	PT100-JIS	-200 to 630 °C (4W) ±0,3 °C
	Ni120	-80 to 260 °C (4W) ±0,2 °C
Thermoelement measurements	Typ	
	R	0 to 500 °C ±1,8 °C
	S	0 to 500 °C ±1,8 °C
	K	0 to 1372 °C ±0,8 °C
	E	0 to 850 °C ±1,5 °C
	J	0 to 1120 °C ±0,7 °C
	T	0 to 400 °C ±0,7 °C
	N	0 to 1300 °C ±0,9 °C
	B	800 to 1000 °C ±1,8 °C
	L	0 to 900 °C ±0,5 °C
	U	0 to 600 °C ±0,5 °C
Supply mode (source)		Accuracy
mV	0 - 1000 mV/DC	±0,02 % +10
Voltage	0 - 10 V/DC	±0,02 % +2
Thermoelement simulations	Type	
	R	0 to 100 °C ±1,5 °C
	S	0 to 100 °C ±1,5 °C
	K	400 to 1200 °C ±0,7 °C
	E	-100 to 600 °C ±0,5 °C
	J	-100 to 800 °C ±0,5 °C
	T	-250 to 400 °C ±0,6 °C
	N	-100 to 900 °C ±0,7 °C
	B	800 to 1820 °C ±1,1 °C
	L	0 to 900 °C ±0,5 °C
	U	0 to 600 °C ±0,5 °C
Resistance probe simulations	Type	
	Pt100	-200 to 850 °C ±0,3 °C
	Pt200	-200 to 250 °C ± 0,2 °C
	Pt500	-200 to 500 °C ±0,3 °C
	Pt1000	-200 to 650 °C ±0,15 °C
	Cu10	-100 to 260 °C ±1,8 °C
	Cu50	-50 to 150 °C ±0,5 °C
	Cu100	-50 to 150 °C ±0,25 °C
	PT100-392	-200 to 630 °C ±0,3 °C
	PT100-JIS	-200 to 630 °C ±0,3 °C
	Ni120	-80 to 260 °C ± 0,2 °C
Output resistance	0-4000 Ω	±0,02 % +8 in the 400 Ω range
Step and slope function	Yes	
3-wire mode	Yes	
4-wire mode	Yes	
Interface	USB	
Product ID (factory-calibrated)	2389432-V2	
Product ID (DAkkS-accredited laboratory)	3191121-V2	



THERMAL IMAGERS

VOLTCRAFT thermal imagers are reliable solutions when it comes to non-contact temperature readings taken by people working in the industries, trade and MRO. High-resolution IR sensors, selectable emissivity and a variety of colour scales enable the accurate detection and analysis of heat spots and temperature gradients. They are easy to use, have built-in memory and come in a robust design. All of which makes them an ideal choice for fast and efficient inspections, maintenance jobs and quality assurance.



VOLTCRAFT Thermal Imagers for Industry & Craft businesses



NEW

Model	WB-80	WB-90
Frame rate	< 9 Hz	25 Hz
Digital camera	-	2 MP
Colour palette	Iron, rainbow, RGB colours, grayscale (white hot), grayscale (black hot)	Iron, rainbow, white hot, black hot, brown hot, blue red, hot cold, feather
Focus	Fixed	Fixed
IR resolution	32 x 32 pixels	96 x 96 pixels
Thermal sensitivity	< 254 mK	< 0,05 °C bei +30 °C (+86 °F) / 50 mK
Accuracy	±2% ±2°C (tested at 25 °C)	±2 °C, or ±2 % a ambient temperature (+10 to +35 °C) at a target temperature of >0 °C
Temperature reading range	-20 to 600 °C	-20 to 550 °C
Emissivity	0,01 - 1,00 (selectable)	0,01 - 1,00 (selectable)
Display	5,08 cm (2,0 Zoll), TFT LCD 240 x 320	LCD-Display, 50,8 mm (2")
Power supply	3x AAA battery (included)	3,7 V / 2000 mAh type 18650 Li-ion battery
Battery life	-	4 hours
Weight	212 g (w/o batteries)	260 g
Operating temperature range	0 to +50 °C	-15 to +50 °C
Storage temperature range	-20 to +60 °C	-30 to +55 °C
Product ID (factory-calibrated)	2362843-V2	3338132-V2
Product ID (ISO-calibrated)	2742720-V2	-

N.B.: Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

N.B.: More details about returning old batteries or rechargeables are available at conrad.com

For more details and the latest information, please visit our online shop at conrad.com



VOLTcraft Thermal Imagers – A comparison



Model	WB-310	WB-410	WB-420	WB-430
Frame rate	25 Hz	25 Hz	25 Hz	50 Hz
Digital camera	2 MP	2 MP	2 MP	2 MP
Colour palette	Iron, rainbow, white hot, black hot, brown hot, blue read, hot cold, feather	Iron, rainbow, white hot, black hot, brown hot, hot cold, edge sharpness, exceedance alert, under-limit alert, close-to-limit alert, viewing area	Iron, rainbow, white hot, black hot, brown hot, hot cold, edge sharpness, exceedance alert, under-limit alert, close-to-limit alert, viewing area	Iron, rainbow, white hot, black hot, brown hot, hot cold, edge sharpness, exceedance alert, under-limit alert, close-to-limit alert, viewing area
Focus	Fixed	Fixed	Fixed	Manual
IR resolution	160 x 120 pixels	160 x 120 pixels	256 x 192 pixels	384 x 288 pixels
Thermal sensitivity	< 0,05 °C at 30 °C (50 mK)	< 0,05 °C at 30 °C (50 mK)	< 0,05 °C at 30 °C (50 mK)	< 0,035 °C at 30 °C (35 mK)
Accuracy	± 2 °C (± 2 °F) or ± 2 % of reading	± 2 °C (± 2 °F) or ± 2 % of reading	± 2 °C (± 2 °F) or ± 2 % of reading	± 2 °C (± 2 °F) or ± 2 % of reading
Temperature reading range	-20 to +150 °C (-4 to +302 °F) +100 to +550 °C (212 to 1022 °F)	-20 to +150 °C 0 to +550 °C	-20 to +150 °C 0 to +550 °C	-20 to +150 °C 0 to +650 °C
Emissivity	0,01 to 1,00 (selectable)	0,01 to 1,00 (selectable)	0,01 to 1,00 (selectable)	0,01 to 1,00 (selectable)
Display	7,11 cm (2,8") LCD, 320 x 240 pixels	8,89 cm (3,5") LCD, 640 x 480 pixels	8,89 cm (3,5") LCD, 640 x 480 pixels	8,89 cm (3,5") LCD, 640 x 480 pixels
Touchscreen	No	Yes (capacitive)	Yes (capacitive)	Yes (capacitive)
Wi-Fi	✓	✓	✓	✓
App	Voltcraft Thermal Imaging	Voltcraft Thermal Imaging	Voltcraft Thermal Imaging	Voltcraft Thermal Imaging
Battery	3,7 V, 2600 mAh, 9,62 Wh, Li-ion	3,7 V, 2600 mAh, 9,62 Wh, Li-ion	3,7 V, 2600 mAh, 9,62 Wh, Li-ion	3,7 V, 2600 mAh, 9,62 Wh, Li-ion
Battery life	4 hrs max.	4 hrs max.	4 hrs max.	4 hrs max.
Weight	420 g	450 g	450 g	526 g
Operating conditions	-15 to +50 °C, 10 – 90 % RH (non-condensing)	-15 to +50 °C, 10 – 90 % RH (non-condensing)	-15 to +50 °C, 10 – 90 % RH (non-condensing)	-15 to +50 °C, 10 – 90 % RH (non-condensing)
Storage conditions	-40 to +70 °C, 10 – 90 % RH (non-condensing)	-40 to +70 °C, 10 – 90 % RH (non-condensing)	-40 to +70 °C, 10 – 90 % RH (non-condensing)	-40 to +70 °C, 10 – 90 % RH (non-condensing)
Product ID (factory-calibrated)	2890403-V2	2890412-V2	2890411-V2	2890410-V2
Product ID (ISO-calibrated)	3049186-V2	3049183-V2	3049184-V2	3049185-V2

Spare battery for Voltcraft
WB-310, WB-410, WB-420, WB-430

Product ID
3357250-V2



Full product details are available at conrad.com