



Specifications Microlab Series

0 - 1200V

0 - 100A

Operation Modes

Constant Voltage / Constant Current / Constant Power / Internal Resistance

DC OUTPUT

Voltage	V	0-12	0-24	0-40	0-60	0-80	0-120	0-150	0-200	0-300	0-600	0-1000	0-1200
Current	A	0-100	0-50	0-30	0-20	0-15	0-10	0-8	0-6	0-4	0-2	0-1,2	0-1

0-2000V on request

Output Voltage :

Accuracy of full range (%)	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,1%	0,1%	0,1%	0,1%	0,1%
Dynamic Response (ms)	18 ms	18 ms	18 ms	25 ms	25 ms	25 ms	36 ms	36 ms	40 ms	45 ms	45 ms	45 ms	48 ms
Ripple VPP (mV)	14 mV	14 mV	14 mV	14 mV	14 mV	22 mV	22 mV	22 mV	22 mV	98 mV	120 mV	129 mV	
Stability (%)	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%
Line Regulation +/-10% (mV)	2,8 mV	2,8 mV	6 mV	8 mV	12 mV	16 mV	20 mV	30 mV	40 mV	80 mV	130 mV	130 mV	
Load Regulation 0-100%	2,8 mV	2,8 mV	6 mV	8 mV	12 mV	16 mV	20 mV	30 mV	40 mV	80 mV	130 mV	130 mV	
Regulation 10-100% load	2,8 mV	2,8 mV	6 mV	8 mV	12 mV	16 mV	20 mV	30 mV	40 mV	80 mV	130 mV	130 mV	
Slew Rate 10-90% (rise time) (ms)	27 ms	32 ms	32 ms	32 ms	37 ms	40 ms	40 ms	45 ms	55 ms	60 ms	65 ms	68 ms	
Overvoltage protection fixe (110%) (V)	13,2V	26,4V	44V	66V	88V	132V	165V	220V	330V	660V	1100V	1320V	
Sensing Compensation (Max V)	1 V	1 V	1,5 V	2 V	3 V	4 V	4 V	5 V	5 V	5 V	5 V	5 V	5 V
Programming Resolution	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%
No load discharge time on DC off (10% of Vmax)	2 s	2 s	2 s	2 s	2 s	2 s	2,5s	2,5s	2,5s	2,5s	2s	2s	2s

Output Current :

Accuracy of full range (%)	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,1%	0,1%	0,1%	0,1%	0,1%
Line Regulation +/-10% (mA)	19 mA	12 mA	8 mA	5,2 mA	4,1 mA	3,2 mA	2,7 mA	1,8 mA	1,4 mA	0,7 mA	0,6 mA	0,5 mA	
Load Regulation 0-100% (mA)	40 mA	25 mA	15,2 mA	11 mA	8,4 mA	7,3 mA	4,3 mA	3,8 mA	2,9 mA	1,7 mA	1,3 mA	1,1 mA	
Stability (%)	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%
Ripple (mA RMS)	190 mA	90 mA	64 mA	52 mA	46 mA	41 mA	34 mA	26 mA	17 mA	12 mA	9 mA	7 mA	
Programming Resolution	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%	0,05%

Input Current (Full Load) :

115 Vac	A	12,6	12,6	12,6	12,6	12,38	12,38	12,23	12	12	12	11,8	11,6
230 Vac	A	6,30	6,30	6,30	6,30	6,19	6,19	6,12	6,00	6,00	6,00	5,90	5,80

Efficiency (%)

		84	84	84	84	86	86	87	88	88	88	90	91
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Isolation :

Input to enclosure	2000Vac / 30s
Input to output	2500Vac / 30s
Output to Enclosure (PE)	2000Vac / 30s
Protections	OVP, OCP, OPP

MEASUREMENTS

Voltage Range (2000 digit)	12.00	24.0	40.0	60.0	80.0	120.0	150.0	200	300	600	1000	1200
Accuracy	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%
Current Range (2000 digit)	100.0	50.0	30.0	19.99	15.00	10.00	8.00	6.00	4.00	1.999	1.200	1.000
Accuracy	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%
Programming readback resolution	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%	0,2%

PROTECTION MODES

Protection Modes	Over Current, Over Voltage, Over Power, Over Temperature
Accuracy	0,50%
Current Range	110% of Imax
OVP Range	110% of Vmax

INTERFACE OPTIONS

Available Type (OPTO ISOLATED)	Analog 0-10VDC (Standard), Analog 4-20 mA (Standard)
Optional	LAN, PROFIBUS, PROFINET, CAN, USB, RS232, GPIB
	Touch screen in Front Panel
Typical response time	150ms (depending on model)

DIGITAL & ANALOG I/O

Analog	U & I Control (0-10V or 4-20mA) U & I Readback (0-10 V or 4-20mA)
Digital	FAULT Return CV / CC mode Return Output Inhibit

POWER INPUT

Power Factor Correction :	
Inrush Current	<15A
Power Factor	0,98
AC Voltage	Single Phase input 85 to 265 VAC
AC Fréquence Range	45-65Hz
AC INPUT Connection	IEC





Specifications Microlab Series

0 - 1200V

0 - 100A

ENVIRONMENTAL AND GENERAL

Cooling	Fan Cooled
Operating Temperature	0° to 40°C (indoor use) at rated power (up to +55°C with derating)
Storage Temperature	-25° to 85°C (indoor use)
Humidity	10% ~ 90% RH (no condensation)
Altitude (max)	3000 m Max
Vibration resistance	MIL-810E. The EUT is fixed to the vibrating surface
Shock	Less than 20G
Audible Noise at 1m	<70 db (Fan at full speed all over the range)
Pollution degree	2
Protection class	1
Display and Panel	3 digits 1/2 displays, accuracy : 0,1% +/-1 count

SAFETY & REGULATORY

Safety Standard	EN 61010
EMC Emissions	EN 55011
EMC Immunity	EN 61000-4
Product Category	EN61010-1:2006 (Measurement, Laboratory and control Equipment)
Approval	CE Mark

AVAILABLE OPTIONS

DC OUTPUT Option

2000 VDC on request

Other Options :

Std Model : Digit Display + knobs



19" inch rack	D : Desktop
Desktop / W : 430mm	R : 19" Rack
Graphics display with touch panel	P : Programming 0-10V or 4-20mA
Without display model	M : Manual with knobs
	T : Touchscreen Interface
	LAN : LAN Interface

Included in ship kit :

- User Manual English
- AC line cord
- Certificate of calibration
- CE conformity Certificate
- Sub-D connector for remote control

ORDERING INFORMATION

Example :

MX1500-15V-100A-R-T-LAN
Microlab MX Series 1500W 15V - 100A - RACK - TACTILE INTERFACE - LAN INTERFACE

DIMENSIONS & WEIGHT

	Height	Width	Depth	Weight (kg)
Dimension (H x W x D)	2U	19"	275mm	7
Shipping Weight (Kg)				9

OUTLINE DRAWING

