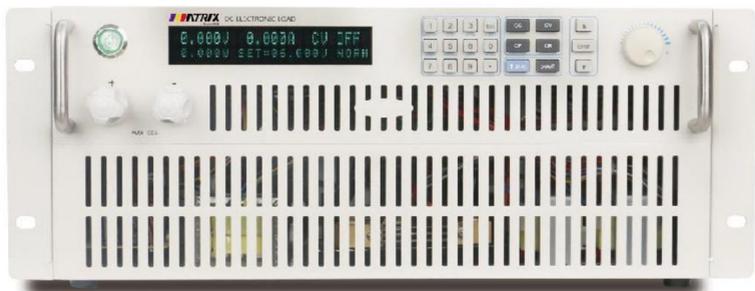


# Programmable DC Electronic Load

## MEL-9000 Series



- High-visibility VFD display with adjustable brightness
- Numeric keyboard, rotary encoding switch, simple and fast operation
- Full-digital bit programmable interface
- High resolution and high precision
- Distal voltage compensation function
- Battery capacity and internal resistance test function
- Automatic test function
- Dynamic test function
- Automatic step sequence table test function
- PWM temperature control intelligent fan control
- Built-in Buzzer serves as a warning prompt
- Power off maintain memory function
- Software can be monitored by computer
- Over voltage / over current / over power / overheat / polar reverse connection protection
- With a PASS / FAIL signal output, the TRIG triggers the signal input
- Fixed voltage CV / fixed current CC / fixed resistance CR / fixed power CP four working modes

### Applications

- New energy test
- Power supply device test
- Battery test
- Aerospace testing, etc

Parameter specifications		
Input	Input voltage	AC 220V±10%, 50±20 Hz
	Power dissipation	< 40W
Load	Load voltage	1~150V/1-500V/1~600V/1~1200V
	Load current	0~60A-1200A
	Bearing power	600W-30 KW
	Load resistance	0.1Ω~10000Ω
	Measurement resolution	Main current
Measurement resolution	Principal voltage	0.001V
	Resistance	0.001Ω
	Power	0.001W
	Certainty of measurement	Main current
Principal voltage		$V_{max} \pm 0.05\% + 4 \text{ mV}$ (24 bitA / D, 15 ppm / °C reference, input impedance 1M Ω)
Control accuracy	Current	$I_{max} \pm 0.1\% + 4 \text{ mA}$ (16 bitD / A, 15 ppm / °C datum)
	Voltage	$V_{max} \pm 0.1\% + 4 \text{ mV}$ (16 bitD / A, 15 ppm / °C datum)
	Resistance	$R_{max} \pm 0.1\% + 0.1 \Omega$ (16 bitD / A, 15 ppm / °C benchmark)
	Power	$P_{max} \pm 0.1\% + 0.1W$ (16 bit D / A, 15 ppm / °C baseline)
Protect	Overvoltage	157.5V-1260V
	Too warm	85°C
	Over power	630W-31500W
	Overcurrent	65A-1205A
Communication interface	Programmable interface	RS232, RS 485
	Supervising software	Connect control PC software (open communication protocol, support secondary development)
Function	Work pattern	Fixed current CC fixed voltage CV fixed resistance CR fixed power CP
	Conventional function	Dynamic test (up to 10 KHZ), short-circuit test, high-precision battery test (hour AH, watt-hour WH)
	Automatic testing	List test customizable functions: overcurrent protection point / protection time test, internal resistance test, etc
Extended port	External trigger	√
	Pass, fail output	√
	Remote voltage measurement	√
Fittings of a machine	RS232 communication line, load high-current copper silver coated cold pressing terminal, communication extension terminal, power line, manual, warranty card	
Service environment	Full load range: 0~300C (over 300C, 40W / 0C); 10 ~ 60% RH	
The dc input is resistant to the case pressure	±500 VDC MAX	
Ac insulation resistance of the input to the cabinet	At> 20 MΩ, 500 VDC	
Dimensions (w * h * d)	See the selection table	

# Programmable DC Electronic Load

## MEL-9000 Series

### Model selection table of 150V series products

Model		MEL9713	MEL9716	MEL9717	MEL9718	MEL9719	MEL9720	MEL9721
Load	Load voltage	1~150V	1~150V	1~150V	1~150V	1~150V	1~150V	1~150V
	Load current	0~120A	0~240A	0~240A	0~240A	0~240A	0~240A	0~300A
	Bearing power	600W	1200W	2400W	3600W	4800W	6000W	8000W
	Load resistance	0.1Ω~10000Ω						
Protect	Overvoltage	157.5V	157.5V	157.5V	157.5V	157.5V	157.5V	157.5V
	Too warm	85℃						
	Over power	630W	1260W	2520W	3780W	5040W	6300W	8400W
	Overcurrent	125A	245A	245A	245A	245A	245A	305A
Size	480*90*400(19"/2U)		480*180*400(19"/4U)	480*270*400(19"/6U)	480*360*400(19"/8U)		480*450*400(19"/10U)	

Model		MEL9722	MEL9723	MEL9724	MEL9725	MEL9726	MEL9727	MEL9728
Load	Load voltage	1~150V	1~150V	1~150V	1~150V	1~150V	1~150V	1~150V
	Load current	0~300A	0~300A	0~600A	0~800A	0~900A	0~1000A	0~1200A
	Bearing power	10000W	12000W	15000W	18000W	21 KW	24 KW	30 KW
	Load resistance	0.1Ω~10000Ω						
Protect	Overvoltage	157.5V	157.5V	157.5V	157.5V	157.5V	157.5V	157.5V
	Too warm	85℃						
	Over power	10500W	12600W	15750W	18900W	22050W	25200W	31500W
	Overcurrent	305A	305A	605A	805A	905A	1005A	1205A
Size	480*630*400(19"/14U)	480*890*400(19"/20U)	480*1070*400(19"/24U)	480*1250*400(19"/28U)	480*1430*400(19"/32U)		480*2140*400(19"/48U)	

### Model selection table of 500V and 600V series products

Model		MEL9713H	MEL9716H	MEL9717H	MEL9718H	MEL9719H	MEL9720H	MEL9721H
Load	Load voltage	1~500V	1~500V	1~500V	1~500V	1~500V	1~500V	1~500V
	Load current	0~60A	0~120A	0~120A	0~120A	0~120A	0~120A	0~200A
	Bearing power	600W	1200W	2400W	3600W	4800W	6000W	8000W
	Load resistance	0.1Ω~10000Ω						
Protect	Overvoltage	525V	525V	525V	525V	525V	525V	630V
	Too warm	85℃						
	Over power	630W	1260W	2520W	3780W	5040W	6300W	8400W
	Overcurrent	65A	125A	125A	125A	125A	125A	205A
Size	480*90*400(19"/2U)		480*180*400(19"/4U)	480*270*400(19"/6U)	480*360*400(19"/8U)		480*540*400(19"/12U)	

Model		MEL9722H	MEL9723H	MEL9724H	MEL9725H	MEL9726H	MEL9727H	MEL9728H
Load	Load voltage	1~500V	1~500V	1~500V	1~500V	1~500V	1~500V	1~500V
	Load current	0~240A	0~240A	0~300A	0~360A	0~360A	0~400A	0~480A
	Bearing power	10000W	12000W	15000W	18000W	21 KW	24 KW	30 KW
	Load resistance	0.1Ω~10000Ω						
Protect	Overvoltage	630V	630V	630V	630V	630V	630V	630V
	Too warm	85℃						
	Over power	10500W	12600W	15750W	18900W	22050W	25200W	31500W
	Overcurrent	245A	245A	305A	365A	365A	405A	485A
Size	480*720*400(19"/16U)	480*890*400(19"/20U)	480*1070*400(19"/24U)	480*1250*400(19"/28U)	480*1430*400(19"/32U)		480*2140*400(19"/48U)	

### Model selection table of 1200V series products

Model		MEL9721G	MEL9722G	MEL9723G	MEL9724G	MEL9725G	MEL9726G	MEL9727G	MEL9728G
Load	Load voltage	1~1200V	1~1200V	1~1200V	1~1200V	1~1200V	1~1200V	1~1200V	1~1200V
	Load current	0~150A	0~150A	0~200A	0~240A	0~300A	0~300A	0~300A	0~360A
	Bearing power	8000W	10000W	12000W	15000W	18000 KW	21 KW	24 KW	30 KW
	Load resistance	0.1Ω~10000Ω							
Protect	Overvoltage	1260V	1260V	1260V	1260V	1260V	1260V	1260V	1260V
	Too warm	85℃							
	Over power	8400W	10500W	12600W	15750W	18900W	22050W	25200W	31500W
	Over current	155A	155A	205A	245A	305A	305A	305A	365A
Size	480*630*400(19"/14U)	480*890*400(19"/20U)	480*1070*400(19"/24U)	480*1430*400(19"/32U)	480*1610*400(19"/36U)	480*1780*400(19"/40U)		480*2140*400(19"/48U)	