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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

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Your Power Testing Solution

IT-M3100 Ultra-compact Wide Range DC Power Supply

Specification

		IT-M3110	IT-M3111	IT-M3112
Rated Output Value (0 °C~40 °C)	Voltage	0~20V	0~30V	0~80V
	Current	0~100A	0~70A	0~22A
	Power	400W	400W	400W
Load Regulation (%of Output+Offset)	Voltage	≤ 0.01%+30mV	≤ 0.01%+20mV	≤ 0.01%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+100mA	≤ 0.1%+20mA
Power Regulation (%of Output+Offset)	Voltage	≤ 0.01%+20mV	≤ 0.01%+20mV	≤ 0.01%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+100mA	≤ 0.1%+20mA
Setup Resolution	Voltage	1mV	1mV	10mV
	Current	10mA	10mA	1mA
Readback Resolution	Voltage	1mV	1mV	10mV
	Current	10mA	10mA	1mA
Setting Accuracy within 12 months 25°C±5°C ±(%of Output +Offset)	Voltage	≤ 0.03%+30mV	≤ 0.03%+20mV	≤ 0.03%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+70mA	≤ 0.1%+30mA
Readback Accuracy within 12 months 25°C±5°C ±(%of Output +Offset)	Voltage	≤ 0.03%+20mV	≤ 0.03%+20mV	≤ 0.03%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+70mA	≤ 0.1%+30mA
Ripple (20Hz ~20MHz)	Voltage	≤ 80mVp-p	≤ 80mVp-p	≤ 100mVp-p
	Current	≤ 100mArms	≤ 70mArms	≤ 40mArms
Setting Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	100 PPM/ °C +20mV	100 PPM/ °C +20mV	100 PPM/ °C +20mV
	Current	200 PPM/ °C +30mA	200 PPM/ °C +30mA	200 PPM/ °C +30mA
Readback Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	100 PPM/ °C +20mV	100 PPM/ °C +20mV	100 PPM/ °C +20mV
	Current	200 PPM/ °C +30mA	200 PPM/ °C +30mA	200 PPM/ °C +30mA
Rising Time (no load)	Voltage	≤ 60ms	≤ 80ms	≤ 80ms
Rising Time (CR full load)	Voltage	≤ 150ms	≤ 200ms	≤ 200ms
Falling Time (no load)	Voltage	≤ 1s	≤ 4s	≤ 4s
Falling Time (CR full load)	Voltage	≤ 300ms	≤ 300ms	≤ 300ms
Dynamic Mode	Output voltage is restored to within 0.5% of the rated output voltage (10%-90%load) ≤ 1ms			
Working Tem.	0~40°C			
Dimension (mm)	236W*510.6D*56.9H			
Net. Weight	5Kg			
Parameter				
AC Input	Voltage	99Vac~264Vac	99Vac~264Vac	99Vac~264Vac
	Frequency	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +10mV	100 PPM/ °C +10mV
	Current	200 PPM/ °C +50mA	200 PPM/ °C +50mA	200 PPM/ °C +50mA
Setup Stability-8h (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +10mV	100 PPM/ °C +10mV
	Current	200 PPM/ °C +50mA	200 PPM/ °C +50mA	200 PPM/ °C +50mA
Readback Stability-30min (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +10mV	100 PPM/ °C +10mV
	Current	200 PPM/ °C +70mA	200 PPM/ °C +70mA	200 PPM/ °C +70mA
Readback Stability-8h (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +10mV	100 PPM/ °C +10mV
	Current	200 PPM/ °C +70mA	200 PPM/ °C +70mA	200 PPM/ °C +70mA
Efficiency		76%	76%	76%
Remote Sense Compensation Voltage		3V	3V	3V
Command Response Time		10~600ms	10~600ms	10~600ms
Power Factor		0.9	0.9	0.9
Maximum Input Current		6A	6A	6A
Maximum Input Apparent Power		600VA	600VA	600VA
Storage Tem.		-10 °C ~70 °C	-10 °C ~70 °C	-10 °C ~70 °C
Protection		OVP/OC/OTP	OVP/OC/OTP	OVP/OC/OTP
Withstand Voltage (Output to Ground)		500VDC/1min	500VDC/1min	500VDC/1min
Withstand Voltage (Input to Ground)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Withstand Voltage (Input to Output)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Isolation Voltage (Output to Ground)		500VDC	500VDC	500VDC

*This information is subject to change without notice.

Your Power Testing Solution

IT-M3100 Ultra-compact Wide Range DC Power Supply

Specification

		IT-M3113	IT-M3114	IT-M3115
Rated Output Value (0 °C~40 °C)	Voltage	0~150V	0~300V	0~600V
	Current	0~12A	0~6A	0~3A
	Power	400W	400W	400W
Load Regulation (% of Output+Offset)	Voltage	≤0.01%+100mV	≤0.01%+100mV	≤0.01%+150mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Power Regulation (% of Output+Offset)	Voltage	≤0.01%+40mV	≤0.01%+150mV	≤0.01%+150mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Setup Resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Readback Resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Setting Accuracy within 12 months 25°C±5°C ±(%of Output +Offset)	Voltage	≤0.03%+75mV	≤0.03%+200mV	≤0.03%+200mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+10mA
Readback Accuracy within 12 months 25°C±5°C ±(%of Output +Offset)	Voltage	≤0.03%+75mV	≤0.03%+200mV	≤0.03%+200mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+10mA
Ripple (20Hz ~20MHz)	Voltage	≤150mVp-p	≤300mVp-p	≤600mVp-p
	Current	≤20mA _{rms}	≤50mA _{rms}	≤30mA _{rms}
Setting Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	100 PPM/ °C +20mV	100 PPM/ °C +100mV	100 PPM/ °C +100mV
	Current	200 PPM/ °C +30mA	200 PPM/ °C +10mA	200 PPM/ °C +10mA
Readback Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	100 PPM/ °C +20mV	100 PPM/ °C +100mV	100 PPM/ °C +100mV
	Current	200 PPM/ °C +30mA	200 PPM/ °C +10mA	200 PPM/ °C +10mA
Rising Time (no load)	Voltage	≤80ms	≤60ms	≤60ms
Rising Time (CR full load)	Voltage	≤200ms	≤200ms	≤200ms
Falling Time (no load)	Voltage	≤4s	≤6s	≤6s
Falling Time (CR full load)	Voltage	≤300ms	≤300ms	≤300ms
Dynamic Mode	Output voltage is restored to within 0.5% of the rated output voltage (10%-90%load) ≤ 1ms			
Working Tem.	0~40°C			
Dimension (mm)	236W*510.6D*56.9H			
Net. Weight	5Kg			
Parameter				
AC Input	Voltage	99Vac~264Vac	99Vac~264Vac	99Vac~264Vac
	Frequency	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +30mV	100 PPM/ °C +30mV
	Current	200 PPM/ °C +50mA	200 PPM/ °C +60mA	200 PPM/ °C +60mA
Setup Stability-8h (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +30mV	100 PPM/ °C +30mV
	Current	200 PPM/ °C +50mA	200 PPM/ °C +60mA	200 PPM/ °C +60mA
Readback Stability-30min (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +30mV	100 PPM/ °C +30mV
	Current	200 PPM/ °C +70mA	200 PPM/ °C +60mA	200 PPM/ °C +60mA
Readback Stability-8h (PPM+Offset)	Voltage	100 PPM/ °C +10mV	100 PPM/ °C +30mV	100 PPM/ °C +30mV
	Current	200 PPM/ °C +70mA	200 PPM/ °C +60mA	200 PPM/ °C +60mA
Efficiency		76%	76%	76%
Remote Sense Compensation Voltage		3V	3V	3V
Command Response Time		10~600ms	10~600ms	10~600ms
Power Factor		0.9	0.9	0.9
Maximum Input Current		6A	6A	6A
Maximum Input Apparent Power		600VA	600VA	600VA
Storage Tem.		-10 °C ~70 °C	-10 °C ~70 °C	-10 °C ~70 °C
Protection		OVP/OC/OTP	OVP/OC/OTP	OVP/OC/OTP
Withstand Voltage (Output to Ground)		500VDC/1min	500VDC/1min	500VDC/1min
Withstand Voltage (Input to Ground)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Withstand Voltage (Input to Output)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Isolation Voltage (Output to Ground)		500VDC	500VDC	600VDC

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Your Power Testing Solution

IT-M3100 Ultra-compact Wide Range DC Power Supply

Specification

		IT-M3120	IT-M3121	IT-M3122
Rated Output Value (0 ~40 ℃)	Voltage	0~20V	0~30V	0~80V
	Current	0~100A	0~70A	0~22A
	Power	850W	850W	850W
Load Regulation (%of Output+Offset)	Voltage	≤ 0.01%+30mV	≤ 0.01%+20mV	≤ 0.01%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+100mA	≤ 0.1%+20mA
Power Regulation (%of Output+Offset)	Voltage	≤ 0.01%+20mV	≤ 0.01%+20mV	≤ 0.01%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+100mA	≤ 0.1%+20mA
Setup Resolution	Voltage	1mV	1mV	10mV
	Current	10mA	10mA	1mA
Readback Resolution	Voltage	1mV	1mV	10mV
	Current	10mA	10mA	1mA
Setting Accuracy within 12 months 25℃±5℃ ± (%of Output +Offset)	Voltage	≤ 0.03%+20mV	≤ 0.03%+20mV	≤ 0.03%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+70mA	≤ 0.1%+30mA
Readback Accuracy within 12 months 25℃±5℃ ± (%of Output +Offset)	Voltage	≤ 0.03%+20mV	≤ 0.03%+20mV	≤ 0.03%+40mV
	Current	≤ 0.1%+100mA	≤ 0.1%+70mA	≤ 0.1%+30mA
Ripple (20Hz -20MHz)	Voltage	≤ 80mVp-p	≤ 80mVp-p	≤ 100mVp-p
	Current	≤ 100mArms	≤ 70mArms	≤ 40mArms
Setting Temperature Coefficient ± (PPM/ ℃ +Offset)	Voltage	100 PPM/℃C+20mV	100 PPM/℃C+20mV	100 PPM/℃C+20mV
	Current	200 PPM/℃C+30mA	200 PPM/℃C+30mA	200 PPM/℃C+30mA
Readback Temperature Coefficient ± (PPM/ ℃ +Offset)	Voltage	100 PPM/℃C+20mV	100 PPM/℃C+20mV	100 PPM/℃C+20mV
	Current	200 PPM/℃C+30mA	200 PPM/℃C+30mA	200 PPM/℃C+30mA
Rising Time (no load)	Voltage	≤ 60ms	≤ 80ms	≤ 80ms
Rising Time (CR full load)	Voltage	≤ 150ms	≤ 200ms	≤ 200ms
Falling Time (no load)	Voltage	≤ 1s	≤ 4s	≤ 4s
Falling Time (CR full load)	Voltage	≤ 300ms	≤ 300ms	≤ 300ms
Dynamic Mode	Output voltage is restored to within 0.5% of the rated output voltage (10%-90%load) ≤ 1ms			
Working Tem.	0~40℃			
Dimension (mm)	236W*510.6D*56.9H			
Net. Weight	5Kg			
Parameter				
AC Input	Voltage 1	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)
	Voltage 2	99Vac~121Vac (600W)	99Vac~121Vac (600W)	99Vac~121Vac (600W)
	Frequency	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/ ℃ +10mV	100 PPM/ ℃ +10mV
	Current	200 PPM/℃C+50mA	200 PPM/ ℃ +50mA	200 PPM/ ℃ +50mA
Setup Stability-8h (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/ ℃ +10mV	100 PPM/ ℃ +10mV
	Current	200 PPM/℃C+50mA	200 PPM/ ℃ +50mA	200 PPM/ ℃ +50mA
Readback Stability-30min (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/ ℃ +10mV	100 PPM/ ℃ +10mV
	Current	200 PPM/℃C+70mA	200 PPM/ ℃ +70mA	200 PPM/ ℃ +70mA
Readback Stability-8h (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/ ℃ +10mV	100 PPM/ ℃ +10mV
	Current	200 PPM/℃C+70mA	200 PPM/ ℃ +70mA	200 PPM/ ℃ +70mA
Efficiency	82%		82%	82%
Remote Sense Compensation Voltage	3V		3V	3V
Command Response Time	10~600ms		10~600ms	10~600ms
Power Factor	0.98		0.98	0.98
Maximum Input Current	11A		11A	11A
Maximum Input Apparent Power	1000VA		1000VA	1000VA
Storage Tem.	-10℃~70℃		-10 ℃ ~70 ℃	-10 ℃ ~70 ℃
Protection	OVP/OC/OTP		OVP/OC/OTP	OVP/OC/OTP
Withstand Voltage (Output to Ground)	500VDC/1min		500VDC/1min	500VDC/1min
Withstand Voltage (Input to Ground)	3375VDC/1min		3375VDC/1min	3375VDC/1min
Withstand Voltage (Input to Output)	3375VDC/1min		3375VDC/1min	3375VDC/1min
Isolation Voltage (Output to Ground)	500VDC		500VDC	500VDC

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Your Power Testing Solution

IT-M3100 Ultra-compact Wide Range DC Power Supply

Specification

		IT-M3123	IT-M3124	IT-M3125
Rated Output Value (0℃~40℃)	Voltage	0~150V	0~300V	0~600V
	Current	0~12A	0~6A	0~3A
	Power	850W	850W	850W
Load Regulation (% of Output+Offset)	Voltage	≤0.01%+100mV	≤0.01%+100mV	≤0.01%+150mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Power Regulation (% of Output+Offset)	Voltage	≤0.01%+40mV	≤0.01%+150mV	≤0.01%+150mV
	Current	≤0.1%+20mA	≤0.1%+20mA	≤0.1%+20mA
Setup Resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Readback Resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Setting Accuracy within 12 months 25℃±5℃ ±(%of Output +Offset)	Voltage	≤0.03%+75mV	≤0.03%+200mV	≤0.03%+200mV
	Current	≤0.1%+10mA	≤0.1%+30mA	≤0.1%+10mA
Readback Accuracy within 12 months 25℃±5℃ ±(%of Output +Offset)	Voltage	≤0.03%+75mV	≤0.03%+200mV	≤0.03%+200mV
	Current	≤0.1%+10mA	≤0.1%+30mA	≤0.1%+10mA
Ripple (20Hz ~20MHz)	Voltage	≤150mVp-p	≤300mVp-p	≤600mVp-p
	Current	≤20mA _{rms}	≤50mA _{rms}	≤30mA _{rms}
Setting Temperature Coefficient ± (PPM/℃ +Offset)	Voltage	100 PPM/℃C+20mV	100 PPM/℃C+100mV	100 PPM/℃C+100mV
	Current	200 PPM/℃C+30mA	200 PPM/℃C+10mA	200 PPM/℃C+10mA
Readback Temperature Coefficient ± (PPM/℃ +Offset)	Voltage	100 PPM/℃C+20mV	100 PPM/℃C+100mV	100 PPM/℃C+100mV
	Current	200 PPM/℃C+30mA	200 PPM/℃C+10mA	200 PPM/℃C+10mA
Rising Time (no load)	Voltage	≤80ms	≤60ms	≤60ms
Rising Time (CR full load)	Voltage	≤200ms	≤200ms	≤200ms
Falling Time (no load)	Voltage	≤4s	≤6s	≤6s
Falling Time (CR full load)	Voltage	≤300ms	≤300ms	≤300ms
Dynamic Mode	Output voltage is restored to within 0.5% of the rated output voltage (10%-90%load) ≤1ms			
Working Tem.	0~40℃			
Dimension (mm)	236W*510.6D*56.9H			
Net. Weight	5Kg			
Parameter				
AC Input	Voltage 1	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)
	Voltage 2	99Vac~121Vac (600W)	99Vac~121Vac (600W)	99Vac~121Vac (600W)
	Frequency	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/℃C+30mV	100 PPM/℃C+30mV
	Current	200 PPM/℃C+50mA	200 PPM/℃C+60mA	200 PPM/℃C+60mA
Setup Stability-8h (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/℃C+30mV	100 PPM/℃C+30mV
	Current	200 PPM/℃C+50mA	200 PPM/℃C+60mA	200 PPM/℃C+60mA
Readback Stability-30min (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/℃C+30mV	100 PPM/℃C+30mV
	Current	200 PPM/℃C+70mA	200 PPM/℃C+60mA	200 PPM/℃C+60mA
Readback Stability-8h (PPM+Offset)	Voltage	100 PPM/℃C+10mV	100 PPM/℃C+30mV	100 PPM/℃C+30mV
	Current	200 PPM/℃C+70mA	200 PPM/℃C+60mA	200 PPM/℃C+60mA
Efficiency	82%		82%	82%
Remote Sense Compensation Voltage	3V		3V	3V
Command Response Time	10~600ms		10~600ms	10~600ms
Power Factor	0.98		0.98	0.98
Maximum Input Current	11A		11A	11A
Maximum Input Apparent Power	1000VA		1000VA	1000VA
Storage Tem.	-10℃~70℃		-10℃~70℃	-10℃~70℃
Protection	OVP/OC/OTP		OVP/OC/OTP	OVP/OC/OTP
Withstand Voltage (Output to Ground)	500VDC/1min		500VDC/1min	500VDC/1min
Withstand Voltage (Input to Ground)	3375VDC/1min		3375VDC/1min	3375VDC/1min
Withstand Voltage (Input to Output)	3375VDC/1min		3375VDC/1min	3375VDC/1min
Isolation Voltage (Output to Ground)	500VDC		500VDC	600VDC

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Your Power Testing Solution

IT-M3100 Ultra-compact Wide Range DC Power Supply

Specification

		IT-M3130	IT-M3131	IT-M3132
Rated Output Value (0 °C~40 °C)	Voltage	0~20V	0~30V	0~80V
	Current	0~120A	0~100A	0~40A
	Power	1500W	1500W	1500W
Load Regulation (% of Output+Offset)	Voltage	0.005%+3mV	0.005%+3mV	0.004%+5mV
	Current	≤ 50mA	≤ 40mA	≤ 10mA
Power Regulation (% of Output+Offset)	Voltage	0.001%+2mV	0.001%+2mV	0.001%+5mV
	Current	≤ 40mA	≤ 30mA	≤ 10mA
Setup Resolution	Voltage	1mV	1mV	1mV
	Current	10mA	10mA	1mA
Readback Resolution	Voltage	1mV	1mV	1mV
	Current	10mA	10mA	1mA
Setting Accuracy within 12 months 25°C±5°C ± (% of Output +Offset)	Voltage	≤ 0.03% + 0.02%F.S.	≤ 0.03% + 0.02%F.S.	≤ 0.03% + 0.02%F.S.
	Current	≤ 0.1% + 0.1%F.S.	≤ 0.1% + 0.1%F.S.	≤ 0.05% + 0.05%F.S.
Readback Accuracy within 12 months 25°C±5°C ± (% of Output +Offset)	Voltage	≤ 0.03% + 0.02%F.S.	≤ 0.03% + 0.02%F.S.	≤ 0.03% + 0.02%F.S.
	Current	≤ 0.1% + 0.1%F.S.	≤ 0.1% + 0.1%F.S.	≤ 0.05% + 0.05%F.S.
Ripple (20Hz ~20MHz)	Voltage	≤ 50mV	≤ 50mV	≤ 140mV
	Current	≤ 120mA	≤ 100mA	≤ 40mA
Setting Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	≤ 20PPM/°C	≤ 20PPM/°C	≤ 20PPM/ °C
	Current	≤ 50PPM/°C	≤ 50PPM/°C	≤ 50PPM/ °C
Readback Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	≤ 20PPM/°C	≤ 20PPM/°C	≤ 20PPM/ °C
	Current	≤ 50PPM/°C	≤ 50PPM/°C	≤ 50PPM/ °C
Rising Time (no load)	Voltage	≤ 60ms	≤ 60ms	≤ 60ms
Rising Time (CR full load)	Voltage	≤ 150ms	≤ 150ms	≤ 150ms
Falling Time (no load)	Voltage	≤ 2s	≤ 2s	≤ 2s
Falling Time (CR full load)	Voltage	≤ 200ms	≤ 200ms	≤ 200ms
Dynamic Mode			≤ 1ms	
Working Tem.			0~40°C	
Dimension (mm)			236W*510.6D*56.9H	
Net. Weight			(6±0.5) Kg	
Parameter				
AC Input	Voltage 1	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)
	Voltage 2	99Vac~121Vac (decrease to 750W)	99Vac~121Vac (decrease to 750W)	99Vac~121Vac (decrease to 750W)
	Frequency	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	0.01%+2mV	0.01%+2mV	0.01%+8mV
	Current	0.03%+35mA	0.03%+35mA	0.01%+10mA
Setup Stability-8h (PPM+Offset)	Voltage	0.01%+2mV	0.01%+2mV	0.01%+10mV
	Current	0.03%+40mA	0.03%+40mA	0.01%+10mA
Readback Stability-30min (PPM+Offset)	Voltage	0.01%+2mV	0.01%+2mV	0.01%+8mV
	Current	0.03%+35mA	0.03%+35mA	0.01%+10mA
Readback Stability-8h (PPM+Offset)	Voltage	0.01%+2mV	0.01%+2mV	0.01%+10mV
	Current	0.03%+35mA	0.03%+35mA	0.01%+10mA
Efficiency		89%	89%	89%
Remote Sense Compensation Voltage		≤ 3V	≤ 3V	≤ 3V
Command Response Time		5ms	5ms	5ms
Power Factor		0.99	0.99	0.99
Maximum Input Current		12A	12A	12A
Maximum Input Apparent Power		1800VA	1800VA	1800VA
Storage Tem.		-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection		OVP/OCP/OTP/OPP/UVP/UCP Sense	OVP/OCP/OTP/OPP/UVP/UCP Sense	OVP/OCP/OTP/OPP/UVP/UCP Sense
Withstand Voltage (Output to Ground)		500VDC/1min	500VDC/1min	500VDC/1min
Withstand Voltage (Input to Ground)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Withstand Voltage (Input to Output)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Isolation Voltage (Output to Ground)		500VDC	500VDC	500VDC

*This information is subject to change without notice.

Your Power Testing Solution

IT-M3100 Ultra-compact Wide Range DC Power Supply

Specification

		IT-M3133	IT-M3134	IT-M3135
Rated Output Value (0°C~40°C)	Voltage	0~150V	0~300V	0~600V
	Current	0~20A	0~10A	0~5A
	Power	1500W	1500W	1500W
Load Regulation (% of Output+Offset)	Voltage	0.004%+12mV	0.004%+20mV	0.004%+30mV
	Current	≤5mA	≤3mA	≤1.5mA
Power Regulation (% of Output+Offset)	Voltage	0.001%+10mV	0.001%+10mV	0.001%+20mV
	Current	≤5mA	≤3mA	≤1.5mA
Setup Resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Readback Resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Setting Accuracy within 12 months 25°C±5°C ± (% of Output +Offset)	Voltage	≤0.03% + 0.02%F.S.	≤0.03% + 0.02%F.S.	≤0.03% + 0.02%F.S.
	Current	≤0.05% + 0.05%F.S.	≤0.05% + 0.05%F.S.	≤0.05% + 0.05%F.S.
Readback Accuracy within 12 months 25°C±5°C ± (% of Output +Offset)	Voltage	≤0.03% + 0.02%F.S.	≤0.03% + 0.02%F.S.	≤0.03% + 0.02%F.S.
	Current	≤0.05% + 0.05%F.S.	≤0.05% + 0.05%F.S.	≤0.05% + 0.05%F.S.
Ripple (20Hz ~20MHz)	Voltage	≤150mV	≤300mV	≤600mV
	Current	≤20mA	≤10mA	≤10mA
Setting Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	≤20PPM/ °C	≤20PPM/ °C	≤20PPM/ °C
	Current	≤50PPM/ °C	≤50PPM/ °C	≤50PPM/ °C
Readback Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	≤20PPM/ °C	≤20PPM/ °C	≤20PPM/ °C
	Current	≤50PPM/ °C	≤50PPM/ °C	≤50PPM/ °C
Rising Time (no load)	Voltage	≤60ms	≤60ms	≤60ms
Rising Time (CR full load)	Voltage	≤150ms	≤150ms	≤150ms
Falling Time (no load)	Voltage	≤2s	≤2s	≤2s
Falling Time (CR full load)	Voltage	≤200ms	≤200ms	≤200ms
Dynamic Mode			≤1ms	
Working Tem.			0~40°C	
Dimension (mm)			236W*510.6D*56.9H	
Net. Weight			(6±0.5) Kg	
Parameter				
AC Input	Voltage 1	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)
	Voltage 2	99Vac~121Vac (decrease to 750W)	99Vac~121Vac (decrease to 750W)	99Vac~121Vac (decrease to 750W)
	Frequency	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	0.01%+10mV	0.01%+60mV	0.01%+80mV
	Current	0.01%+4mA	0.01%+2.5mA	0.01%+1.6mA
Setup Stability-8h (PPM+Offset)	Voltage	0.01%+12mV	0.01%+75mV	0.01%+100mV
	Current	0.01%+4mA	0.01%+2.5mA	0.01%+1.6mA
Readback Stability-30min (PPM+Offset)	Voltage	0.01%+10mV	0.01%+60mV	0.01%+80mV
	Current	0.01%+4mA	0.01%+2.5mA	0.01%+1.6mA
Readback Stability-8h (PPM+Offset)	Voltage	0.01%+12mV	0.01%+75mV	0.01%+100mV
	Current	0.01%+4mA	0.01%+2.5mA	0.01%+1.6mA
Efficiency		89%	89%	88%
Remote Sense Compensation Voltage		≤3V	≤3V	≤3V
Command Response Time		5ms	5ms	5ms
Power Factor		0.99	0.99	0.99
Maximum Input Current		12A	12A	12A
Maximum Input Apparent Power		1800VA	1800VA	1800VA
Storage Tem.		-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection		OVP/OC/OTP/OPP/UVP/UCP Sense	OVP/OC/OTP/OPP/UVP/UCP Sense	OVP/OC/OTP/OPP/UVP/UCP Sense
Withstand Voltage (Output to Ground)		500VDC/1min	500VDC/1min	2100VDC/1min
Withstand Voltage (Input to Ground)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Withstand Voltage (Input to Output)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Isolation Voltage (Output to Ground)		500VDC	500VDC	600VDC

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Your Power Testing Solution

IT-M3100 Ultra-compact Wide Range DC Power Supply

Specification

		IT-M3116	IT-M3126	IT-M3136
Rated Output Value (0 °C~40 °C)	Voltage	0~1000V	0~1000V	0~1000V
	Current	0~3A	0~3A	0~3A
	Power	0~400W	0~850W	0~1500W
Load Regulation (% of Output+Offset)	Voltage	0.004%+30mV	0.004%+30mV	0.004%+30mV
	Current	≤ 0.8mA	≤ 0.8mA	≤ 0.8mA
Power Regulation (% of Output+Offset)	Voltage	0.004%+30mV	0.004%+30mV	0.004%+30mV
	Current	≤ 0.8mA	≤ 0.8mA	≤ 0.8mA
Setup Resolution	Voltage	100mV	100mV	100mV
	Current	1mA	1mA	1mA
Readback Resolution	Voltage	100mV	100mV	100mV
	Current	1mA	1mA	1mA
Setting Accuracy within 12 months 25°C±5°C ± (% of Output +Offset)	Voltage	≤ 0.02% + 0.02%F.S.	≤ 0.02% + 0.02%F.S.	≤ 0.02% + 0.02%F.S.
	Current	≤ 0.05% + 0.05%F.S.	≤ 0.05% + 0.05%F.S.	≤ 0.05% + 0.05%F.S.
Readback Accuracy within 12 months 25°C±5°C ± (% of Output +Offset)	Voltage	≤ 0.02% + 0.02%F.S.	≤ 0.02% + 0.02%F.S.	≤ 0.02% + 0.02%F.S.
	Current	≤ 0.05% + 0.05%F.S.	≤ 0.05% + 0.05%F.S.	≤ 0.05% + 0.05%F.S.
Ripple (20Hz ~20MHz)	Voltage	≤ 1000mV	≤ 1000 mV	≤ 1000mV
	Current	≤ 5mA	≤ 5mA	≤ 5mA
Setting Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	≤ 20PPM/°C	≤ 20PPM/°C	≤ 20PPM/°C
	Current	≤ 50PPM/°C	≤ 50PPM/°C	≤ 50PPM/°C
Readback Temperature Coefficient ± (PPM/ °C +Offset)	Voltage	≤ 20PPM/°C	≤ 20PPM/°C	≤ 20PPM/°C
	Current	≤ 50PPM/°C	≤ 50PPM/°C	≤ 50PPM/°C
Rising Time (no load)	Voltage	≤ 60ms	≤ 60ms	≤ 60ms
Rising Time (CR full load)	Voltage	≤ 300ms	≤ 150ms	≤ 150ms
Falling Time (no load)	Voltage	≤ 2s	≤ 2S	≤ 2s
Falling Time (CR full load)	Voltage	≤ 200ms	≤ 200ms	≤ 200ms
Dynamic Mode			≤ 1ms	
Working Tem.			0~40°C	
Dimension (mm)			236W*510.6D*56.9H	
Net. Weight			(6±0.5) Kg	
Parameter				
AC Input	Voltage 1	99Vac~264Vac (rated power)	176Vac~264Vac (rated power)	176Vac~264Vac (rated power)
	Voltage 2	/	99Vac~121Vac (decrease to 750W)	99Vac~121Vac (decrease to 750W)
	Frequency	47Hz~63Hz	47~63Hz	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	0.005%+60mV	0.005%+60mV	0.005%+60mV
	Current	0.01%+0.9mA	0.01%+0.9mA	0.01%+0.9mA
Setup Stability-8h (PPM+Offset)	Voltage	0.005%+60mV	0.005%+60mV	0.005%+60mV
	Current	0.01%+0.9mA	0.01%+0.9mA	0.01%+0.9mA
Readback Stability-30min (PPM+Offset)	Voltage	0.005%+60mV	0.005%+60mV	0.005%+60mV
	Current	0.01%+0.9mA	0.01%+0.9mA	0.01%+0.9mA
Readback Stability-8h (PPM+Offset)	Voltage	0.005%+60mV	0.005%+60mV	0.005%+60mV
	Current	0.01%+0.9mA	0.01%+0.9mA	0.01%+0.9mA
Efficiency		81%	82%	88%
Remote Sense Compensation Voltage		≤ 3V	≤ 3V	≤ 3V
Command Response Time		5ms	5ms	5ms
Power Factor		0.98	0.98	0.99
Maximum Input Current		6A	6A	12A
Maximum Input Apparent Power		500VA	1000VA	1800VA
Storage Tem.		-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection		OVP/OCP/OTP/OPP/UVP/UCP Sense	OVP/OCP/OTP/OPP/UVP/UCP Sense	OVP/OCP/OTP/OPP/UVP/UCP Sense
Withstand Voltage (Output to Ground)		2100VDC/1min	2100VDC/1min	2100VDC/1min
Withstand Voltage (Input to Ground)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Withstand Voltage (Input to Output)		3375VDC/1min	3375VDC/1min	3375VDC/1min
Isolation Voltage (Output to Ground)		1000VDC	1000VDC	1000VDC

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