

Product Datasheet - Technical Specifications



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5 Specification

This chapter will introduce the rated voltage, current, power and many other main parameters of IT-M3100 series power supplies.

- ◆ Main Specification
- ◆ Supplemental Characteristics

5.1 Main Specification

5.1.1 IT-M3110

Parameter		IT-M3110
Rated value (0 °C-40 °C)	Voltage	0~20V
	Current	0~100A
	Power	400W
Load Regulation	Voltage	≤0.01%+30mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Line Regulation	Voltage	≤0.01%+20mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Setup Resolution	Voltage	1mV
	Current	10mA
Read Back Resolution	Voltage	1mV
	Current	10mA
Setup Accuracy (within 12 months, 25°C±5°C)	Voltage	≤0.03%+20mV
	Current	≤0.1%+100mA
Read Back Accuracy (within 12 months, 25°C±5°C)	Voltage	≤0.03%+20mV
	Current	≤0.1%+100mA
Ripple	Voltage	≤80mVp-p
(20Hz -20MHz)	Current	≤100mArms

Parameter		IT-M3110
Setup Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤150mS
Fall Time (no load)	Voltage	≤1S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (400W)
	Voltage2	99V~ 121V (400W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Setup Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Readback Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Readback Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Efficiency	76%	
Remote Sense Compensation Voltage	3V	
Command Response Time	10~600mS	
Power Factor	0.9	
Maximum Input Current	6A	

Parameter	IT-M3110
Maximum Input Apparent Power	600VA
Storage Temperature	-10°C~70°C
Protective Function	OVP/OCP/OTP
Isolation (output to ground)	500V

5.1.2 IT-M3111

Parameter		IT-M3111
Rated value (0 °C-40 °C)	Voltage	0~30V
	Current	0~70A
	Power	400W
Load Regulation	Voltage	≤0.01%+30mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Line Regulation	Voltage	≤0.01%+20mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Setup Resolution	Voltage	1mV
	Current	10mA
Read Back Resolution	Voltage	1mV
	Current	10mA
Setup Accuracy (within 12 months, 25°C±5°C)	Voltage	≤0.03%+20mV
	Current	≤0.1%+70mA
Read Back Accuracy (within 12 months, 25°C±5°C)	Voltage	≤0.03%+20mV
	Current	≤0.1%+70mA
Ripple	Voltage	≤80mVp-p
(20Hz -20MHz)	Current	≤70mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA

Parameter		IT-M3111
Read Back Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤3S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (400W)
	Voltage2	99V~ 121V (400W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Setup Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Readback Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Readback Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Efficiency	76%	
Remote Sense Compensation Voltage	3V	
Command Response Time	10~600mS	
Power Factor	0.9	
Maximum Input Current	6A	
Maximum Input Apparent Power	600VA	
Storage Temperature	-10°C~70°C	

Parameter	IT-M3111
Protective Function	OVP/OCP/OTP
Isolation (output to ground)	500V

5.1.3 IT-M3112

Parameter		IT-M3112
Rated value (0 °C-40 °C)	Voltage	0~80V
	Current	0~22A
	Power	400W
Load Regulation	Voltage	≤0.01%+40mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+40mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+40mV
	Current	≤0.1%+30mA
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+40mV
	Current	≤0.1%+30mA
Ripple	Voltage	≤100mVp-p
(20Hz -20MHz)	Current	≤40mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS

Parameter		IT-M3112
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤4S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (400W)
	Voltage2	99V~ 121V (400W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Setup Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Readback Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Readback Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Efficiency	76%	
Remote Sense Compensation Voltage	3V	
Command Response Time	10~600mS	
Power Factor	0.9	
Maximum Input Current	6A	
Maximum Input Apparent Power	60VA	
Storage Temperature	-10°C~70°C	
Protective Function	OVP/OCP/OTP	
Isolation (output to ground)	500V	

5.1.4 IT-M3113

Parameter		IT-M3113
Rated value (0 °C-40 °C)	Voltage	0~150V
	Current	0~12A
	Power	400W
Load Regulation	Voltage	≤0.01%+100mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+40mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+75mV
	Current	≤0.1%+20mA
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+75mV
	Current	≤0.1%+20mA
Ripple (20Hz -20MHz)	Voltage	≤200mVp-p
	Current	≤20mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+20mV
	Current	200 PPM/°C+30mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+20mV
	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤4S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	

Parameter		IT-M3113
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (400W)
	Voltage2	99V~ 121V (400W)
	Frequency	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	100 PPM/°C+10mV
	Current	200 PPM/°C+50mA
Setup Stability-8h (PPM+Offset)	Voltage	100 PPM/°C+10mV
	Current	200 PPM/°C+50mA
Readback Stability-30min (PPM+Offset)	Voltage	100 PPM/°C+10mV
	Current	200 PPM/°C+70mA
Readback Stability-8h (PPM+Offset)	Voltage	100 PPM/°C+10mV
	Current	200 PPM/°C+70mA
Efficiency	76%	
Remote Sense Compensation Voltage	3V	
Command Response Time	10~600mS	
Power Factor	0.9	
Maximum Input Current	6A	
Maximum Input Apparent Power	600VA	
Storage Temperature	-10°C~70°C	
Protective Function	OVP/OCP/OTP	
Isolation (output to ground)	500V	

5.1.5 IT-M3114

Parameter		IT-M3114
Rated value (0 °C-40 °C)	Voltage	0~300V
	Current	0~6A
	Power	400W

Parameter		IT-M3114
Load Regulation	Voltage	$\leq 0.01\% + 100\text{mV}$
\pm (% of Output+Offset)	Current	$\leq 0.1\% + 20\text{mA}$
Line Regulation	Voltage	$\leq 0.01\% + 150\text{mV}$
\pm (% of Output+Offset)	Current	$\leq 0.1\% + 20\text{mA}$
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	$\leq 0.03\% + 200\text{mV}$
	Current	$\leq 0.1\% + 20\text{mA}$
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	$\leq 0.03\% + 200\text{mV}$
	Current	$\leq 0.1\% + 20\text{mA}$
Ripple	Voltage	$\leq 300\text{mVp-p}$
(20Hz -20MHz)	Current	$\leq 50\text{mArms}$
Setup Temperature Coefficient	Voltage	100 PPM/°C+100mV
\pm (PPM/°C+Offset)	Current	200 PPM/°C+10mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+100mV
\pm (PPM/°C+Offset)	Current	200 PPM/°C+10mA
Rise Time (no load)	Voltage	$\leq 60\text{mS}$
Rise Time (CR full load)	Voltage	$\leq 200\text{mS}$
Fall Time (no load)	Voltage	$\leq 6\text{S}$
Fall Time (CR full load)	Voltage	$\leq 300\text{mS}$
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load) $\leq 1\text{mS}$	
Working Temperature	0-40°C	
Dimension (mm)	505*234*52.8	
Weight (net)	5Kg	
Parameter		

Parameter		IT-M3114
AC Input	Voltage1	176V~ 264V (400W)
	Voltage2	99V~ 121V (400W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Setup Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Efficiency (Full voltage and full power)		76%
Remote Sense Compensation Voltage		3V
Command Response Time		10~600mS
Power Factor		0.9
Maximum Input Current		6A
Maximum Input Apparent Power		600VA
Storage Temperature		-10°C~70°C
Protective Function		OVP/OCP/OTP
Isolation (output to ground)		600V

5.1.6 IT-M3115

Parameter		IT-M3115
Rated value (0 °C-40 °C)	Voltage	0~600V
	Current	0~3A
	Power	400W
Load Regulation	Voltage	≤0.01%+150mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+150mV

Parameter		IT-M3115
±(% of Output+Offset)	Current	≤0.1%+20mA
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+200mV
±(% of Output+Offset)	Current	≤0.1%+10mA
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+200mV
±(% of Output+Offset)	Current	≤0.1%+10mA
Ripple	Voltage	≤600mVp-p
(20Hz -20MHz)	Current	≤30mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+100mV
±(PPM/°C+Offset)	Current	200 PPM/°C+10mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+100mV
±(PPM/°C+Offset)	Current	200 PPM/°C+10mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤6S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (400W)
	Voltage2	99V~ 121V (400W)
	Frequency	47Hz~63Hz

Parameter		IT-M3115
Setup Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Setup Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Efficiency (Full voltage and full power)		76%
Remote Sense Compensation Voltage		3V
Command Response Time		10~600mS
Power Factor		0.9
Maximum Input Current		6A
Maximum Input Apparent Power		600VA
Storage Temperature		-10°C~70°C
Protective Function		OVP/OCP/OTP
Isolation (output to ground)		600V

5.1.7 IT-M3120

Parameter		IT-M3120
Rated value (0 °C-40 °C)	Voltage	0~20V
	Current	0~100A
	Power	850W
Load Regulation	Voltage	≤0.01%+30mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Line Regulation	Voltage	≤0.01%+20mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Setup Resolution	Voltage	1mV
	Current	10mA

Parameter		IT-M3120
Read Back Resolution	Voltage	1mV
	Current	10mA
Setup Accuracy (within 12 months, 25°C ±5°C) ±(% of Output+Offset)	Voltage	≤0.03%+20mV
	Current	≤0.1%+100mA
Read Back Accuracy (within 12 months, 25°C ±5°C) ±(% of Output+Offset)	Voltage	≤0.03%+20mV
	Current	≤0.1%+100mA
Ripple (20Hz -20MHz)	Voltage	≤80mVp-p
	Current	≤100mArms
Setup Temperature Coefficient ±(PPM/°C+Offset)	Voltage	100 PPM/°C+20mV
	Current	200 PPM/°C+30mA
Read Back Temperature Coefficient ±(PPM/°C+Offset)	Voltage	100 PPM/°C+20mV
	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤150mS
Fall Time (no load)	Voltage	≤1S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (full load)
	Voltage2	99V~ 121V (600W)
	Frequency	47Hz~63Hz
Setup Stability-30min (PPM+Offset)	Voltage	100 PPM/°C+10mV
	Current	200 PPM/°C+50mA
Setup Stability-8h	Voltage	100 PPM/°C+10mV

Parameter		IT-M3120
(PPM+Offset)	Current	200 PPM/°C+50mA
Readback Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Readback Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Efficiency		82%
Remote Sense Compensation Voltage		3V
Command Response Time		10~600mS
Power Factor		0.98
Maximum Input Current		11A
Maximum Input Apparent Power		1000VA
Storage Temperature		-10°C~70°C
Protective Function		OVP/OCP/OTP
Isolation (output to ground)		500V

5.1.8 IT-M3121

Parameter		IT-M3121
Rated value (0 °C-40 °C)	Voltage	0~30V
	Current	0~70A
	Power	850W
Load Regulation	Voltage	≤0.01%+30mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Line Regulation	Voltage	≤0.01%+20mV
±(% of Output+Offset)	Current	≤0.1%+100mA
Setup Resolution	Voltage	1mV
	Current	10mA
Read Back Resolution	Voltage	1mV
	Current	10mA
Setup Accuracy	Voltage	≤0.03%+20mV

Parameter		IT-M3121
(within 12 months, 25°C ±5°C)		
±(% of Output+Offset)	Current	≤0.1%+70mA
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+20mV
±(% of Output+Offset)	Current	≤0.1%+70mA
Ripple	Voltage	≤80mVp-p
(20Hz -20MHz)	Current	≤70mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤3S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (full load)
	Voltage2	99V~ 121V (600W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Setup Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Readback Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA

Parameter		IT-M3121
Readback Stability-8h (PPM+Offset)	Voltage	100 PPM/°C+10mV
	Current	200 PPM/°C+70mA
Efficiency		82%
Remote Sense Compensation Voltage		3V
Command Response Time		10~600mS
Power Factor		0.98
Maximum Input Current		11A
Maximum Input Apparent Power		1100VA
Storage Temperature		-10°C~70°C
Protective Function		OVP/OCP/OTP
Isolation (output to ground)		500V

5.1.9 IT-M3122

Parameter		IT-M3122
Rated value (0 °C-40 °C)	Voltage	0~80V
	Current	0~22A
	Power	850W
Load Regulation	Voltage	≤0.01%+40mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+40mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+40mV
	Current	≤0.1%+30mA
Read Back Accuracy	Voltage	≤0.03%+40mV

Parameter		IT-M3122
(within 12 months, 25°C ±5°C)		
±(% of Output+Offset)	Current	≤0.1%+30mA
Ripple	Voltage	≤100mVp-p
(20Hz -20MHz)	Current	≤40mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤4S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (full load)
	Voltage2	99V~ 121V (600W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Setup Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Readback Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Readback Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Efficiency	82%	

Parameter	IT-M3122
Remote Sense Compensation Voltage	3V
Command Response Time	10~600mS
Power Factor	0.98
Maximum Input Current	11A
Maximum Input Apparent Power	1100VA
Storage Temperature	-10°C~70°C
Protective Function	OVP/OCP/OTP
Isolation (output to ground)	500V

5.1.10 IT-M3123

Parameter		IT-M3123
Rated value (0 °C-40 °C)	Voltage	0~150V
	Current	0~12A
	Power	850W
Load Regulation	Voltage	≤0.01%+100mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+40mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+75mV
	Current	≤0.1%+20mA
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+75mV
	Current	≤0.1%+20mA
Ripple	Voltage	≤200mVp-p

Parameter		IT-M3123
(20Hz -20MHz)	Current	≤20mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+20mV
±(PPM/°C+Offset)	Current	200 PPM/°C+30mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤4S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (full load)
	Voltage2	99V~ 121V (600W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Setup Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+50mA
Readback Stability-30min	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Readback Stability-8h	Voltage	100 PPM/°C+10mV
(PPM+Offset)	Current	200 PPM/°C+70mA
Efficiency	82%	
Remote Sense Compensation Voltage	3V	
Command Response Time	10~600mS	
Power Factor	0.98	
Maximum Input Current	11A	

Parameter	IT-M3123
Maximum Input Apparent Power	1100VA
Storage Temperature	-10°C~70°C
Protective Function	OVP/OCP/OTP
Isolation (output to ground)	500V

5.1.11 IT-M3124

Parameter	IT-M3124	
Rated value (0 °C-40 °C)	Voltage	0~300V
	Current	0~6A
	Power	850W
Load Regulation	Voltage	≤0.01%+100mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+150mV
±(% of Output+Offset)	Current	≤0.1%+20mA
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+200mV
	Current	≤0.1%+20mA
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	≤0.03%+200mV
	Current	≤0.1%+20mA
Ripple	Voltage	≤300mVp-p
(20Hz -20MHz)	Current	≤50mArms
Setup Temperature Coefficient	Voltage	100 PPM/°C+100mV
±(PPM/°C+Offset)	Current	200 PPM/°C+10mA

Parameter		IT-M3124
Read Back Temperature Coefficient	Voltage	100 PPM/°C+100mV
±(PPM/°C+Offset)	Current	200 PPM/°C+10mA
Rise Time (no load)	Voltage	≤60mS
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤6S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (full load)
	Voltage2	99V~ 121V (600W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Setup Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Efficiency (Full voltage and full power)	82%	
Remote Sense Compensation Voltage	3V	
Command Response Time	10~600mS	
Power Factor	0.98	
Maximum Input Current	11A	
Maximum Input Apparent Power	1100VA	
Storage Temperature	-10°C~70°C	

Parameter	IT-M3124
Protective Function	OVP/OCP/OTP
Isolation (output to ground)	600V

5.1.12 IT-M3125

Parameter		IT-M3125
Rated value (0 °C-40 °C)	Voltage	0~600V
	Current	0~3A
	Power	850W
Load Regulation	Voltage	$\leq 0.01\% + 150\text{mV}$
\pm (% of Output+Offset)	Current	$\leq 0.1\% + 20\text{mA}$
Line Regulation	Voltage	$\leq 0.01\% + 150\text{mV}$
\pm (% of Output+Offset)	Current	$\leq 0.1\% + 20\text{mA}$
Setup Resolution	Voltage	10mV
	Current	1mA
Read Back Resolution	Voltage	10mV
	Current	1mA
Setup Accuracy (within 12 months, 25°C ±5°C)	Voltage	$\leq 0.03\% + 200\text{mV}$
	Current	$\leq 0.1\% + 10\text{mA}$
Read Back Accuracy (within 12 months, 25°C ±5°C)	Voltage	$\leq 0.03\% + 200\text{mV}$
	Current	$\leq 0.1\% + 10\text{mA}$
Ripple	Voltage	$\leq 600\text{mVp-p}$
(20Hz -20MHz)	Current	$\leq 30\text{mA}_{\text{rms}}$
Setup Temperature Coefficient	Voltage	100 PPM/°C+100mV
\pm (PPM/°C+Offset)	Current	200 PPM/°C+10mA
Read Back Temperature Coefficient	Voltage	100 PPM/°C+100mV
\pm (PPM/°C+Offset)	Current	200 PPM/°C+10mA
Rise Time (no load)	Voltage	$\leq 60\text{ms}$

Parameter		IT-M3125
Rise Time (CR full load)	Voltage	≤200mS
Fall Time (no load)	Voltage	≤6S
Fall Time (CR full load)	Voltage	≤300mS
Transient Response Time	The output voltage is restored to within 0.5% of the rated output (10%-90%load)≤1mS	
Working Temperature	0-40°C	
Dimension (mm)	505*234*58	
Weight (net)	5Kg	
Parameter		
AC Input	Voltage1	176V~ 264V (full load)
	Voltage2	99V~ 121V (600W)
	Frequency	47Hz~63Hz
Setup Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Setup Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-30min	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Readback Stability-8h	Voltage	100 PPM/°C+30mV
(PPM+Offset)	Current	200 PPM/°C+60mA
Efficiency (Full voltage and full power)	82%	
Remote Sense Compensation Voltage	3V	
Command Response Time	10~600mS	
Power Factor	0.98	
Maximum Input Current	11A	
Maximum Input Apparent Power	1100VA	
Storage Temperature	-10°C~70°C	
Protective Function	OVP/OCP/OTP	
Isolation (output to ground)	600V	