

Product Datasheet - Technical Specifications



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6.1.1 IT6006D-500-30

Parameter		IT6006D-500-30
Rated value (0 °C-40 °C)	Output Voltage	0 ~ 500V
	Output Current	0 ~ 30A
	Output Power	0 ~ 6000W
Line Regulation	Voltage	≤0.01%FS
±(% of Output+Offset)	Current	≤0.05%FS
Load Regulation	Voltage	≤0.02%FS
±(% of Output+Offset)	Current	≤0.05%FS
Setup Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Read Back Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Setup Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Read Back Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Ripple	Voltage	≤200mVpp(MAX:≤500mVpp)
(20Hz -20MHz)	Current	≤0.1%FS RMS
Setup Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Read Back Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Rise Time(no load)	Voltage	≤15ms
Rise Time(full load)	Voltage	≤30ms
Fall Time(no load)	Voltage	≤1s

Parameter		IT6006D-500-30
Fall Time(full load)	Voltage	≤100ms
Transient Response Time	Voltage	≤2ms
AC Input	Voltage	198V ~ 264V (Derating 50%) 342V ~ 528V (Three-phase four-wire)
	Maximum Input Current	L1,L2/20A;L3/0A
	Maximum Input Apparent Power	6.6kVA
	Frequency	47Hz ~ 63Hz
Setup Stability-30min	Voltage	≤0.02%+0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Setup stability-8h	Voltage	≤0.02%+0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback Stability-30min	Voltage	≤0.02%+0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback stability-8h	Voltage	≤0.02%+0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Efficiency	~ 92%	
Remote Sense Compensation Voltage	≤5V	
Command Response Time	2mS	
Power Factor	0.99	
Storage Temperature	-10°C ~ 70°C	
Protective Function	OVP, OCP, OPP, OTP and Vsense reversed protection	
Standard Interface	Standard: USB, CAN, LAN; optional: GPIB, analog card, fiber optic socket	
Isolation (output to ground)	1000V	
Working Temperature	0 ~ 50°C	
Dimension (mm)	483W*801.61D*151.3H	
Weight(net)	20KG	

6.1.2 IT6012D-500-60

Parameter		IT6012D-500-60
Rated value (0 °C-40 °C)	Output Voltage	0 ~ 500V
	Output Current	0 ~ 60A
	Output Power	0 ~ 12000W
Line Regulation	Voltage	≤0.01%FS
±(% of Output+Offset)	Current	≤0.05%FS
Load Regulation	Voltage	≤0.02%S
±(% of Output+Offset)	Current	≤0.05%FS
Setup Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Read Back Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Setup Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Read Back Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Ripple	Voltage	≤200mVpp(MAX:≤500mVpp)
(20Hz -20MHz)	Current	≤0.1%FS RMS
Setup Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Read Back Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Rise Time(no load)	Voltage	≤15ms
Rise Time(full load)	Voltage	≤30ms
Fall Time(no load)	Voltage	≤1s

Parameter		IT6012D-500-60
Fall Time(full load)	Voltage	≤100ms
Transient Response Time	Voltage	≤2ms
AC Input	Voltage	198V ~ 264V (Derating 50%) 342V ~ 528V (Three-phase four-wire)
	Maximum Input Current	L1,L2/20A;L3/34A
	Maximum Input Apparent Power	12.8kVA
	Frequency	47Hz ~ 63Hz
Setup Stability-30min	Voltage	≤0.02% + 0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Setup stability-8h	Voltage	≤0.02% + 0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback Stability-30min	Voltage	≤0.02% + 0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback stability-8h	Voltage	≤0.02% + 0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Efficiency	~ 92%	
Remote Sense Compensation Voltage	≤5V	
Command Response Time	2mS	
Power Factor	0.99	
Storage Temperature	-10°C ~ 70°C	
Protective Function	OVP, OCP, OPP, OTP and Vsense reversed protection	
Standard Interface	Standard: USB, CAN, LAN; optional: GPIB, analog card, fiber optic socket	
Isolation (output to ground)	1000V	
Working Temperature	0 ~ 50°C	
Dimension (mm)	483W*801.61D*151.3H	
Weight(net)	30KG	

6.1.3 IT6012D-800-40

Parameter		IT6012D-800-40
Rated value (0 °C-40 °C)	Output Voltage	0 ~ 800V
	Output Current	0 ~ 40A
	Output Power	0 ~ 12000W
Line Regulation	Voltage	≤0.01%FS
±(% of Output+Offset)	Current	≤0.05%FS
Load Regulation	Voltage	≤0.02%FS
±(% of Output+Offset)	Current	≤0.05%FS
Setup Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Read Back Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Setup Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Read Back Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Ripple	Voltage	≤800mVpp(MAX:≤1.2Vpp)
(20Hz -20MHz)	Current	≤0.1%FS RMS
Setup Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Read Back Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Rise Time(no load)	Voltage	≤15ms
Rise Time(full load)	Voltage	≤30ms
Fall Time(no load)	Voltage	≤1s

Parameter		IT6012D-800-40
Fall Time(full load)	Voltage	≤100ms
Transient Response Time	Voltage	≤2ms
AC Input	Voltage	198V ~ 264V (Derating 50%) 342V ~ 528V (Three-phase four-wire)
	Maximum Input Current	L1,L2/20A;L3/34A
	Maximum Input Apparent Power	13.2kVA
	Frequency	47Hz ~ 63Hz
Setup Stability-30min	Voltage	≤0.02%+0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Setup stability-8h	Voltage	≤0.02%+0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback Stability-30min	Voltage	≤0.02%+0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback stability-8h	Voltage	≤0.02%+0.02%FS
±(%of Output+Offset)	Current	≤0.1% + 0.1%FS
Efficiency	~ 92%	
Remote Sense Compensation Voltage	≤8V	
Command Response Time	2mS	
Power Factor	0.99	
Storage Temperature	-10°C ~ 70°C	
Protective Function	OVP, OCP, OPP, OTP and Vsense reversed protection	
Standard Interface	Standard: USB, CAN, LAN; optional: GPIB, analog card, fiber optic socket	
Isolation (output to ground)	1500V	
Working Temperature	0 ~ 50°C	
Dimension (mm)	483W*801.61D*151.3H	
Weight(net)	30KG	

6.1.4 IT6018D-800-60

Parameter		IT6018D-800-60
Rated value (0 °C-40 °C)	Output Voltage	0 ~ 800V
	Output Current	0 ~ 60A
	Output Power	0 ~ 18000W
Line Regulation	Voltage	≤0.01%FS
±(% of Output+Offset)	Current	≤0.05%FS
Load Regulation	Voltage	≤0.02%FS
±(% of Output+Offset)	Current	≤0.05%FS
Setup Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Read Back Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Setup Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Read Back Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Ripple	Voltage	≤320mVpp(MAX: ≤800mVpp)
(20Hz -20MHz)	Current	≤0.1%FS RMS
Setup Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Read Back Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Rise Time(no load)	Voltage	≤15ms
Rise Time(full load)	Voltage	≤30ms
Fall Time(no load)	Voltage	≤1s

Parameter		IT6018D-800-60
Fall Time(full load)	Voltage	≤100ms
Transient Response Time	Voltage	≤2ms
AC Input	Voltage	198V to 264V (Derating 50%)
		342V to 528V (Three-phase four-wire)
	Maximum Input Current	33.37A
	Maximum Input Apparent Power	19.8kVA
	Frequency	47Hz ~ 63Hz
Setup Stability-30min	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Setup stability-8h	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback Stability-30min	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback stability-8h	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Efficiency	~ 92%	
Remote Sense Compensation Voltage	≤8V	
Command Response Time	2mS	
Power Factor	0.99	
Storage Temperature	-10°C ~ 70°C	
Protective Function	OVP, OCP, OPP, OTP and Vsense reversed protection	
Standard Interface	Standard: USB, CAN, LAN; optional: GPIB, analog card, fiber optic socket	
Isolation (output to ground)	1500V	
Working Temperature	0 ~ 50°C	
Dimension (mm)	483W*801.61D*151.3H	
Weight(net)	40KG	

6.1.5 IT6018D-800-75

Parameter		IT6018D-800-75
Rated value (0 °C-40 °C)	Output Voltage	0 ~ 800V
	Output Current	0 ~ 75A
	Output Power	0 ~ 18000W
Line Regulation	Voltage	≤0.01%FS
±(% of Output+Offset)	Current	≤0.05%FS
Load Regulation	Voltage	≤0.02%FS
±(% of Output+Offset)	Current	≤0.05%FS
Setup Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Read Back Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.001kW
Setup Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Read Back Accuracy	Voltage	≤0.02% + 0.02%FS
(within 12 months, 25°C ±5°C)	Current	≤0.1% + 0.1%FS
±(% of Output+Offset)	Power	≤0.5% + 0.5%FS
Ripple	Voltage	≤320mVpp(MAX: ≤800mVpp)
(20Hz -20MHz)	Current	≤0.1%FS RMS
Setup Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Read Back Temperature Coefficient	Voltage	≤50PPM/°C
(% of Output/°C+Offset)	Current	≤200PPM/°C
Rise Time(no load)	Voltage	≤15ms
Rise Time(full load)	Voltage	≤30ms
Fall Time(no load)	Voltage	≤1s

Parameter		IT6018D-800-75
Fall Time(full load)	Voltage	≤100ms
Transient Response Time	Voltage	≤2ms
AC Input	Voltage	198V to 264V (Derating 50%)
		342V to 528V (Three-phase four-wire)
	Maximum Input Current	33.37A
	Maximum Input Apparent Power	19.8kVA
	Frequency	47Hz ~ 63Hz
Setup Stability-30min	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Setup stability-8h	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback Stability-30min	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Readback stability-8h	Voltage	≤0.02% + 0.02%FS
±(% of Output+Offset)	Current	≤0.1% + 0.1%FS
Efficiency	~ 92%	
Remote Sense Compensation Voltage	≤8V	
Command Response Time	2mS	
Power Factor	0.99	
Storage Temperature	-10°C ~ 70°C	
Protective Function	OVP, OCP, OPP, OTP and Vsense reversed protection	
Standard Interface	Standard: USB, CAN, LAN; optional: GPIB, analog card, fiber optic socket	
Isolation (output to ground)	1500V	
Working Temperature	0 ~ 50°C	
Dimension (mm)	483mm(W)*801.61mm(D)*151.3mm(H)	
Weight(net)	40KG	