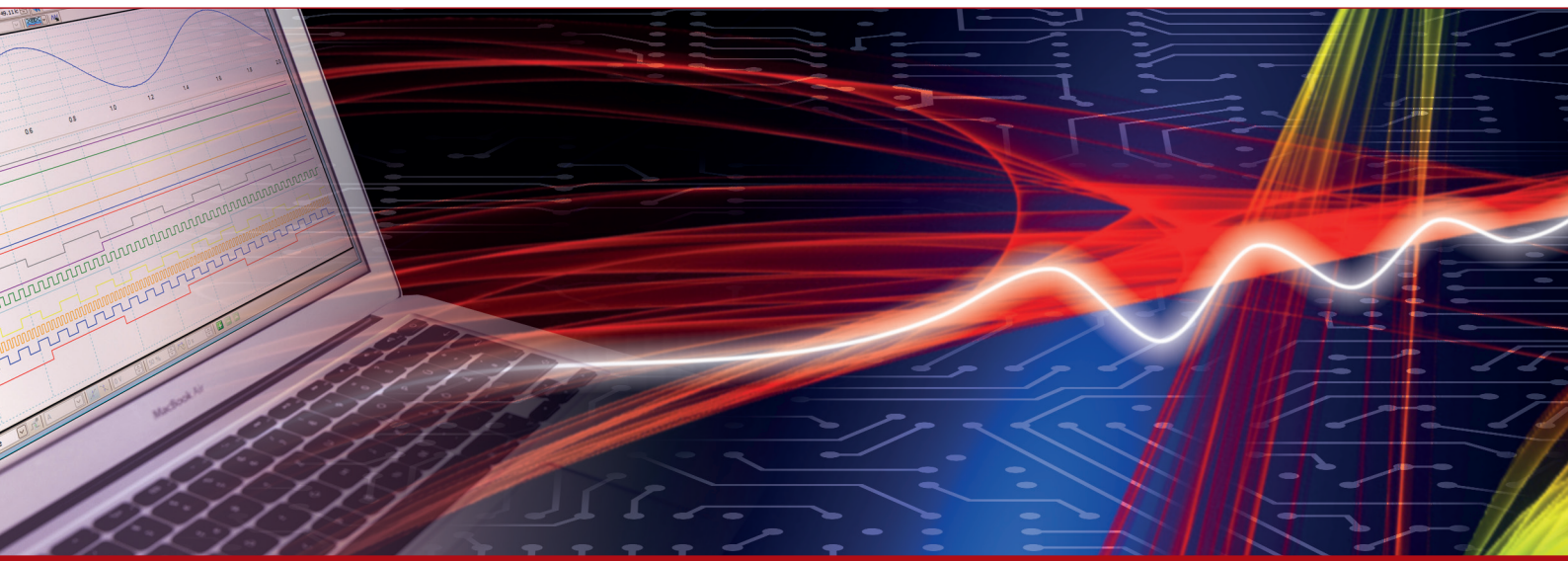


Product Datasheet - Technical Specifications



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Chapter9 Technical Specifications

This chapter will introduce the main technical parameters of IT7600, such as rated voltage/current/power and so on. Besides, this part will introduce the working environment and storage temperature.

9.1 Main technical parameters

Parameter		IT7622	V1.4
AC Input			
Voltage	220Vac±10% or 110Vac±10%		
Phase	1φ		
Frequency	47-63Hz		
Max.Current	20A/40A		
Power Factor	0.7(Typical)		
AC Output			
Max. output power	750VA		
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V		
Voltage resolution	10mV		
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times K \text{freq}) \times FS$ ^{*2}		
Voltage accuracy(loop:slow) ^{*1}	$\pm 0.3\% + (0.3\% + 0.3\% \times K \text{freq}) \times FS$ ^{*2}		
Temp. coefficient	$\pm(0.04\% \text{ per degree from } 25^{\circ}\text{C})$		
Max Current(rms)	1-150Vac	0-6Arms	
	2-300Vac	0-3Arms	
Max Current(peak)	90-125Vac	0-18Apeak	
	180-250Vac	0-9Apeak	
Total Harmonic Distortion ^{*3}	$\leq 0.5\%$ at 10-500Hz (Resistive Load)		
	$\leq 2\%$ at 501-5000Hz (Resistive Load)		
Crest Factor	3(Typical)		
Line Regulation	$\leq 0.1\%FS$ (Resistive Load)		
Load Regulation	$\leq 0.5\%FS$ (Resistive Load)		
Dynamic Response Time	$\leq 100\mu\text{s}$ (Typical)		
Output Phase	single phase		
DC Output			

Max. output power		375W
Voltage output		$\pm 212\text{V}/\pm 424\text{V}^{*6}$
Voltage resolution		10mV
Voltage output and readback Accuracy		$\pm(0.2\%+0.2\%FS)^{*7}$
Temp. coefficient		$\pm(0.04\%$ per degree from 25°C)
Current range		3A/1.5A
Current resolution		10mA
Current readback accuracy		$\pm(0.3\%+0.3\%FS)^{*7}$
Power meter accuracy		$\pm(0.4\%+0.4\%FS)^{*7}$
Voltage ripple	Peak	300mVp-p
	Rms	150mVrms
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm(0.2\%+0.2\%FS)$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (rms)	Range	0-6Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (peak)	Range	0-18Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Power	Resolution	10mW
	Accuracy	$\pm 0.4\%+(0.4\%+0.3\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 1^\circ(45-65\text{Hz})^{*5}$
Frequency	Range	10Hz-5KHz

	Resolution	0.1Hz
	Accuracy	$\pm 0.1\% + 0.1\text{Hz}(45\text{Hz}-999.9\text{Hz}) / \pm 0.1\% + 1\text{Hz}(1\text{KHz}-5\text{KHz})^{*4}$
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Dimension (WxHxD)	3u	
Weight	45Kg	

*1: Precondition for voltage accuracy: Slow loop speed: 10-100Hz, Fast loop speed: 10-5KHz;

*2: FS= Full Scale, $V_{rms}=300\text{Vac}$; $I_{rms}=6\text{A}$; $I_{pk}=18\text{A}$; $P=750\text{VA}$;

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: Testing premise is in Fast mode

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*7: FS=full: $V_{dc}=424\text{Vdc}$; $I_{dc}=3\text{A}$; $P=375\text{W}$.

Parameter		IT7624	V1.4
AC Input			
Voltage	220Vac $\pm 10\%$ or 110Vac $\pm 10\%$		
Phase	1 ϕ		
Frequency	47-63Hz		
Max.Current	30A/60A		
Power Factor	0.7(Typical)		
AC Output			
Max. output power	1.5KVA		
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V		
Voltage resolution	10mV		
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times K \text{freq}) \times \text{FS}^{*2}$		
Voltage accuracy(loop:slow) ^{*1}	$\pm 0.3\% + (0.3\% + 0.3\% \times K \text{freq}) \times \text{FS}^{*2}$		
Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^\circ\text{C})$		
Max Current(rms)	1-150Vac	0-12Arms	
	2-300Vac	0-6Arms	

Max Current(peak)	90-125Vac	0-36Apeak
	180-250Vac	0-18Apeak
Total Harmonic Distortion* ³		≤0.5% at 10-500Hz (Resistive Load)
		≤2% at 501-5000Hz (Resistive Load)
Crest Factor		3(Typical)
Line Regulation		≤0.1%FS(Resistive Load)
Load Regulation		≤0.5%FS(Resistive Load)
Dynamic Response Time		≤100us(Typical)
Output Phase		single phase
DC Output		
Max. output power		750W
Voltage output		±212V/±424V* ⁶
Voltage resolution		10mV
Voltage output and readback Accuracy		±(0.2%+0.2%FS)* ⁷
Temp. coefficient		±(0.04% per degree from 25°C)
Current range		6A/3A
Current resolution		10mA
Current readback accuracy		±(0.3%+0.3%FS)* ⁷
Power meter accuracy		±(0.4%+0.4%FS)* ⁷
Voltage ripple	Peak	300mVp-p
	Rms	150mVrms
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	±(0.2%+0.2%FS)
	Temp. coefficient	±(0.04% per degree from 25°C)
AC current (rms)	Range	0-12Arms
	Resolution	10mA
	Accuracy	±0.3%+(0.3%+0.2%×Kfreq)×FS* ²
	Temp. coefficient	±(0.04% per degree from 25°C)
AC current (peak)	Range	0-36Apeak
	Resolution	10mA

	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times \text{Kfreq}) \times \text{FS}^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^\circ\text{C})$
Power	Resolution	10mW
	Accuracy	$\pm 0.4\% + (0.4\% + 0.2\% \times \text{Kfreq}) \times \text{FS}^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^\circ\text{C})$
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 1^\circ (45\text{-}65\text{Hz})^{*5}$
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz
	Accuracy	$\pm 0.1\% + 0.1\text{Hz} (45\text{Hz}-999.9\text{Hz}) / \pm 0.1\% + 1\text{Hz} (1\text{KHz}-5\text{KHz})^{*4}$
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Dimension (WxHxD)	3u	
Weight	50Kg	

*1: Precondition for voltage accuracy: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

*2: FS= Full Scale: $V_{rms}=300\text{Vac}$, $I_{rms}=12\text{A}$; $I_{pk}=36\text{A}$; $P=1500\text{VA}$.

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: Testing premise is in Fast mode

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*7: FS=full: $V_{dc}=424\text{Vdc}$; $I_{dc}=6\text{A}$; $P=750\text{W}$.

Parameter	IT7625	V1.1
AC Input		
Voltage	380Vac $\pm 10\%$ (Y)	
Phase	3 ϕ	
Frequency	47-63Hz	
Max.Current	30A	
Power Factor	0.7(Typical)	

AC Output		
Output Phase	1φ or 3φ	
Max. output power	4.5KVA	
Max. output power of each phase	1.5KVA	
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V	
Voltage resolution	10mV	
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times \text{Kfreq}) \times \text{FS}^{*2}$	
Voltage accuracy(loop:slow) ^{*1}	$\pm 0.3\% + (0.3\% + 0.3\% \times \text{Kfreq}) \times \text{FS}^{*2}$	
Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)	
Max.Current(1φ)	RMS	36A/18A ^{*8}
	Peak(CF=3)	108A/54A ^{*8}
Max.Current(3φ)	RMS	12A/6A
	Peak(CF=3)	36A/18A
Total Harmonic Distortion ^{*3}	$\leq 0.5\%$ at 10-500Hz (Resistive Load)	
	$\leq 2\%$ at 501-5000Hz (Resistive Load)	
Crest Factor	3	
Line Regulation	$\leq 0.1\%$ FS(Resistive Load)	
Load Regulation	$\leq 0.5\%$ FS(Resistive Load)	
Dynamic Response Time	$\leq 200\mu\text{s}$ (Typical)	
DC Output		
Max. output power	2.25KW	
Voltage output	$\pm 212\text{V}/\pm 424\text{V}^{*6}$	
Voltage resolution	10mV	
Voltage output and readback Accuracy	$\pm(0.2\% + 0.2\% \text{FS})^{*7}$	
Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)	
Current range	18A/9A	
Current resolution	10mA	
Current readback accuracy	$\pm(0.3\% + 0.3\% \text{FS})^{*7}$	
Power meter accuracy	$\pm(0.4\% + 0.4\% \text{FS})^{*7}$	
Voltage ripple	Peak	500mVp-p
	Rms	200mVrms
Meter		

AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm(0.2\%+0.2\%FS)$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (rms)	Range	0-36Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (peak)	Range	0-108Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Power	Resolution	10mW
	Accuracy	$\pm 0.4\%+(0.4\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 1^\circ(45-65Hz)^{*5}$
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz
	Accuracy	$\pm 0.1\%+0.1Hz(10Hz-999.9Hz)/\pm 0.1\%+1Hz(1KHz-5KHz)^{*4}$
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Memory	10 groups	
Dimension(WxHxD)	15u	

*1: Preconditions for voltage accury: Slow loop speed: 10-100Hz, Fast loop speed: 10-5KHz;

*2: FS=full scale, Vrms 300Vac; Irms=36A; Ipk=108A; P=4500VA;

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: Testing premise is in Fast mode.

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*7: FS=full scale; Vdc=424Vdc; Idc=18A; P=2250W;

*8: The maximum current range is 95% in the parallel mode.

Parameter		IT7626	V1.7
AC Input			
Voltage		220Vac±10%	
Phase		1φ	
Frequency		47-63Hz	
Max.Current		60A	
Power Factor		0.7(Typical)	
AC Output			
Max. output power		3KVA	
Voltage range		High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V	
Voltage resolution		10mV	
Voltage accuracy (loop:fast) ^{*1}		±0.2%+(0.2%+0.2%×Kfreq)×FS ^{*2}	
Voltage accuracy (loop:slow) ^{*1}		±0.3%+(0.3%+0.3%×Kfreq)×FS ^{*2}	
Temp. coefficient		±(0.04% per degree from 25°C)	
Max Current(rms)	1-150Vac	0-24Arms	
	2-300Vac	0-12Arms	
Max Current(peak)	90-125Vac	0-72Apeak	
	180-250Vac	0-36Apeak	
Total Harmonic Distortion ^{*3}		≤0.5% at 10-500Hz (Resistive Load)	
		≤2% at 501-5000Hz (Resistive Load)	
Crest Factor		3(Typical)	
Line Regulation		≤0.1%FS(Resistive Load)	
Load Regulation		≤0.5%FS(Resistive Load)	
Dynamic Response Time		≤100us(Typical)	
Output Phase		single phase	
DC Output			
Max. output power		1.5KW	
Voltage output		±212V/±424V ^{*6}	
Voltage resolution		10mV	

Voltage output and readback Accuracy		$\pm(0.2\%+0.2\%FS)^{*7}$
Temp. coefficient		$\pm(0.04\%$ per degree from 25°C)
Current range		12A/6A
Current resolution		10mA
Current readback accuracy		$\pm(0.3\%+0.3\%FS)^{*7}$
Power meter accuracy		$\pm(0.4\%+0.4\%FS)^{*7}$
Voltage ripple	Peak	300mVp-p
	Rms	150mVrms
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm(0.2\%+0.2\%FS)$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (rms)	Range	0-24Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (peak)	Range	0-72Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Power	Resolution	10mW
	Accuracy	$\pm 0.4\%+(0.4\%+0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 1^\circ(45-65Hz)^{*5}$
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz
	Accuracy	$\pm 0.1\%+0.1Hz(10Hz-999.9Hz)/\pm 0.1\%+1Hz(1KHz-5KHz)^{*4}$
Other		

Protection	OPP,OCP,OTP
Interface	GPIB,USB,LAN,RS232,CAN
Memory	10groups
Dimension(WxHxD)	6u
Weight	100Kg

*1: Preconditions for voltage accuracy: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

*2: FS=full scale: $V_{rms}=300Vac$, $I_{rms}=24A$; $I_{pk}=72A$; $P=3000VA$.

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: Testing premise is in Fast mode

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*7: FS=full scale: $V_{dc}=424Vdc$; $I_{dc}=12A$; $P=1500W$.

Parameter		IT7627	V1.4
AC Input			
Voltage	380Vac \pm 10%(Y)		
Phase	3 ϕ		
Frequency	47-63Hz		
Max.Current	60A		
Power Factor	0.7(Typical)		
AC Output			
Output Phase	1 ϕ or 3 ϕ		
Max. output power	9KVA		
Max.output power of each phase	3KVA		
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V		
Voltage resolution	10mV		
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times Kfreq) \times FS^{*2}$		
Voltage accuracy(loop:slow) ^{*1}	$\pm 0.3\% + (0.3\% + 0.3\% \times Kfreq) \times FS^{*2}$		
Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)		
Max.Current(1 ϕ)	RMS	72A/36A ^{*8}	
	Peak(CF=3)	216A/108A ^{*8} (Typical)	

Max.Current(3φ)	RMS	24A/12A
	Peak(CF=3)	72A/36A (Typical)
Total Harmonic Distortion ^{*3}		≤0.5% at 10-500Hz (Resistive Load)
		≤2% at 501-5000Hz (Resistive Load)
Crest Factor		3(Typical)
Line Regulation		≤0.1%FS(Resistive Load)
Load Regulation		≤0.5%FS(Resistive Load)
Dynamic Response Time		≤200us(Typical)
DC Output		
Max. output power		4.5KW
Voltage output		±212V/±424V ^{*6}
Voltage resolution		10mV
Voltage output and readback Accuracy		±(0.2%+0.2%FS) ^{*7}
Temp. coefficient		±(0.04% per degree from 25°C)
Current range		36A/18A
Current resolution		10mA
Current readback accuracy		±(0.3%+0.3%FS) ^{*7}
Power meter accuracy		±(0.4%+0.4%FS) ^{*7}
Voltage ripple	Peak	500mVp-p
	Rms	200mVrms
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	±(0.2%+0.2%FS)
	Temp. coefficient	±(0.04% per degree from 25°C)
AC current (rms)	Range	0-72Arms
	Resolution	10mA
	Accuracy	±0.3%+(0.3%+0.2%×Kfreq)×FS ^{*2}
	Temp. coefficient	±(0.04% per degree from 25°C)
AC current (peak)	Range	0-216Apeak
	Resolution	10mA

	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times K \text{freq}) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^\circ\text{C})$
Power	Resolution	10mW
	Accuracy	$\pm 0.4\% + (0.4\% + 0.2\% \times K \text{freq}) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^\circ\text{C})$
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 1^\circ (45-65\text{Hz})^{*5}$
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz
	Accuracy	$\pm 0.1\% + 0.1\text{Hz} (10\text{Hz}-999.9\text{Hz}) / \pm 0.1\% + 1\text{Hz} (1\text{KHz}-5\text{KHz})^{*4}$
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Memory	10 groups	
Dimension(WxHxD)	27u	

*1: Preconditions for voltage accuracy: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

*2: FS=full scale: $V_{rms}=300\text{Vac}$, $I_{rms}=72\text{A}$; $I_{pk}=216\text{A}$; $P=9000\text{VA}$;

*3: The minimum voltage of THD test is 10Vac(Auto mode) and 20Vac(High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: Testing premise is in Fast mode

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*7: FS=full scale: $V_{dc}=424\text{Vdc}$; $I_{dc}=36\text{A}$; $P=4500\text{W}$;

*8: The maximum current range is 95% in the parallel mode.

Meet CF=3, the voltage in low range is 90 to 125 Vac and in high range is 180 to 250Vac.

Parameter	IT7628	V1.5
AC Input		
Voltage	380Vac \pm 10%(Y)	
Phase	3 ϕ	
Frequency	47-63Hz	
Max.Current	120A	

Power Factor	0.7(Typical)	
AC Output		
Output Phase	1φ or 3φ	
Max. output power	18KVA	
Max.output power of each phase	6KVA	
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V	
Voltage resolution	10mV	
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times \text{Kfreq}) \times \text{FS}^{*2}$	
Voltage accuracy(loop:slow) ^{*1}	$\pm 0.3\% + (0.3\% + 0.3\% \times \text{Kfreq}) \times \text{FS}^{*2}$	
Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$	
Max.Current(1φ)	RMS	144A/72A ^{*8}
	Peak(CF=3)	432A/216A ^{*8} (Typical)
Max.Current(3φ)	RMS	48A/24A
	Peak(CF=3)	144A/72A(Typical)
Total Harmonic Distortion ^{*3}	$\leq 0.5\%$ at 10-500Hz (Resistive Load)	
	$\leq 2\%$ at 501-5000Hz (Resistive Load)	
Crest Factor	3(Typical)	
Line Regulation	$\leq 0.1\%$ FS(Resistive Load)	
Load Regulation	$\leq 0.5\%$ FS(Resistive Load)	
Dynamic Response Time	$\leq 200\mu\text{s}$ (Typical)	
DC Output		
Max. output power	9KW	
Voltage output	$\pm 212\text{V}/\pm 424\text{V}^{*6}$	
Voltage resolution	10mV	
Voltage output and readback Accuracy	$\pm (0.2\% + 0.2\% \text{FS})^{*7}$	
Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$	
Current range	72A/36A	
Current resolution	10mA	
Current readback accuracy	$\pm (0.3\% + 0.3\% \text{FS})^{*7}$	
Power meter accuracy	$\pm (0.4\% + 0.4\% \text{FS})^{*7}$	
Voltage ripple	Peak	600mVp-p
	Rms	300mVrms

Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm(0.2\%+0.2\%FS)$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (rms)	Range	0-144Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.3\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (peak)	Range	0-432Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.3\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Power	Resolution	10mW
	Accuracy	$\pm 0.4\%+(0.4\%+0.4\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 1^\circ(45-65Hz)^{*5}$
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz
	Accuracy	$\pm 0.1\%+0.1Hz(10Hz-999.9Hz)/\pm 0.1\%+1Hz(1KHz-5KHz)^{*4}$
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Dimension(WxHxD)	37u	
Weight	750Kg	

*1: Meet the voltage accuracy requirements: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

*2: FS corresponds to the full range: $V_{rms}=300Vac$; $I_{rms}=144A$; $I_{pk}=432A$; $P=18KVA$;

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: The test mode is Fast.

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*7: FS corresponds to the full range: Vdc=424Vdc;Idc=72A;P=9000W;

*8: The maximum current range is 95% in the parallel mode.

Meet CF=3, the voltage in low range is 90 to 125 Vac and in high range is 180 to 250Vac.

Parameter		IT7628L Ver V1.5
AC Input		
Voltage		380Vac±10%(Y)
Phase		3 φ
Frequency		47-63Hz
Max.Current		90A
Power Factor		0.7(Typical)
AC Output		
Output Phase		1 φ or 3 φ
Max. output power		13.5KVA
Max.output power of each phase		4.5KVA
Voltage range		High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V
Voltage resolution		10mV
Voltage accuracy (loop:fast) ^{*1}		± 0.2%+(0.2%+0.2%×Kfreq)×FS ^{*2}
Voltage accuracy (loop:slow) ^{*1}		± 0.3%+(0.3%+0.3%×Kfreq)×FS ^{*2}
Temp. coefficient		±(0.04% per degree from 25°C)
Max.Current(1 φ)	RMS	108A/54A ^{*8}
	Peak(CF=3)	324A/2162A ^{*8} (Typical)
Max.Current(3 φ)	RMS	36A/18A
	Peak(CF=3)	108A/54A(Typical)
Total Harmonic Distortion ^{*3}		≤0.5% at 10-500Hz (Resistive Load)
		≤2% at 501-5000Hz (Resistive Load)
Crest Factor		3(Typical)
Line Regulation		≤0.1%FS(Resistive Load)
Load Regulation		≤0.5%FS(Resistive Load)
Dynamic Response Time		≤200us(Typical)
DC Output		

Parameter		IT7628L Ver V1.5
Max. output power		6.75KW
Voltage output		$\pm 212V/\pm 424V^{*6}$
Voltage resolution		10mV
Voltage output and readback Accuracy		$\pm (0.2\%+0.2\%FS)^{*7}$
Temp. coefficient		$\pm (0.04\%$ per degree from 25 °C)
Current range		54A/27A
Current resolution		10mA
Current readback accuracy		$\pm (0.3\%+0.3\%FS)^{*7}$
Power meter accuracy		$\pm (0.4\%+0.4\%FS)^{*7}$
Voltage ripple	Peak	600mVp-p
	Rms	300mVrms
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm (0.2\%+0.2\%FS)$
	Temp. coefficient	$\pm (0.04\%$ per degree from 25 °C)
AC current (rms)	Range	0-108Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.3\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\%$ per degree from 25 °C)
AC current (peak)	Range	0-324Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\%+(0.3\%+0.3\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\%$ per degree from 25 °C)
Power	Resolution	10mW
	Accuracy	$\pm 0.4\%+(0.4\%+0.4\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\%$ per degree from 25 °C)
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 1^\circ$ (45-65Hz) ^{*5}
Frequency	Range	10Hz-5KHz

Parameter		IT7628L Ver V1.5
	Resolution	0.1Hz
	Accuracy	$\pm 0.1\% + 0.1\text{Hz}(10\text{Hz}-999.9\text{Hz}) / \pm 0.1\% + 1\text{Hz}(1\text{KHz}-5\text{KHz})^{*4}$
Other		
Protection	OPP、OCP、OTP	
Interface	GPIB、USB、LAN、RS232、CAN	
Dimension (WxHxD)	37u	
Weight	770Kg	

*1: Meet the voltage accuracy requirements: Slow loop speed: 15-100Hz; Fast loop speed: 15-5KHz.

*2: FS corresponds to the full range: $V_{rms}=300\text{Vac}$; $I_{rms}=36\text{A}$; $I_{pk}=108\text{A}$; $P=13.5\text{KVA}$;

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: The test mode is Fast.

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*7: FS corresponds to the full range: $V_{dc}=424\text{Vdc}$; $I_{dc}=54\text{A}$; $P=6750\text{W}$;

*8: The maximum current range is 95% in the parallel mode.

Meet $CF=3$, the voltage in low range is 90 to 125 Vac and in high range is 180 to 250Vac.

Parameter	IT7630	V1.1
AC Input		
Voltage	380Vac $\pm 10\%$ (Y)	
Phase	3 ϕ	
Frequency	47-63Hz	
Max.Current	60A $\times 3$ ^{*9}	
Power Factor	0.7(Typical)	
AC Output		
Output Phase	3 ϕ	
Max. output power	27KVA	
Max.output power of each phase	9KVA	
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V	

Voltage resolution		10mV
Voltage accuracy(loop:fast) ^{*1}		$\pm 0.2\% + (0.2\% + 0.2\% \times Kfreq) \times FS^{*2}$
Voltage accuracy(loop:slow) ^{*1}		$\pm 0.3\% + (0.3\% + 0.3\% \times Kfreq) \times FS^{*2}$
Temp. coefficient		$\pm(0.04\%$ per degree from 25°C)
Max.Current(3φ)	RMS	72A/36A
	Peak(CF=3)	216A/108A
Total Harmonic Distortion ^{*3}		$\leq 0.5\%$ at 10-500Hz (Resistive Load)
		$\leq 2\%$ at 501-5000Hz (Resistive Load)
Crest Factor		3
Line Regulation		$\leq 0.1\%FS$ (Resistive Load)
Load Regulation		$\leq 0.5\%FS$ (Resistive Load)
Dynamic Response Time		$\leq 200\mu s$ (Typical)
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm(0.2\% + 0.2\%FS)$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (rms)	Range	0-72Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (peak)	Range	0-216Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Power	Resolution	10mW
	Accuracy	$\pm 0.4\% + (0.4\% + 0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 3^\circ$ (45-65Hz) ^{*5}

Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz
	Accuracy	$\pm 0.1\% + 0.1\text{Hz}(10\text{Hz}-999.9\text{Hz}) / \pm 0.1\% + 1\text{Hz}(1\text{KHz}-5\text{KHz})$ ^{*4}
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Dimension(WxHxD)	27ux3	

^{*1}: Meet the voltage accuracy requirements: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

^{*2}: FS corresponds to the full range: $V_{rms}=300\text{Vac}$; $I_{rms}=72\text{A}$; $I_{pk}=216\text{A}$; $P=27\text{KVA}$;

^{*3}: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

^{*4}: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

^{*5}: The test mode is Fast.

^{*6}: The minimum voltage setting must not be less than 50Vdc/35Vac.

^{*8}: The maximum current range is 95% in the parallel mode.

^{*9}: Three power supplies with 18KVA, max. 3 ϕ input current of each power supply is 60A.

Parameter	IT7632	V1.1
AC Input		
Voltage	380Vac $\pm 10\%$ (Y)	
Phase	3 ϕ	
Frequency	47-63Hz	
Max.Current	120A $\times 3$ ^{*9}	
Power Factor	0.7(Typical)	
AC Output		
Output Phase	3 ϕ	
Max. output power	36KVA	
Max.output power of each phase	12KVA	
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V	
Voltage resolution	10mV	
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times \text{Kfreq}) \times \text{FS}$ ^{*2}	

Voltage accuracy(loop:slow) ^{*1}		$\pm 0.3\% + (0.3\% + 0.3\% \times K_{\text{freq}}) \times \text{FS}^{*2}$
Temp. coefficient		$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
Max.Current(3 ϕ)	RMS	96A/48A
	Peak(CF=3)	288A/144A
Total Harmonic Distortion ^{*3}		$\leq 0.5\%$ at 10-500Hz (Resistive Load)
		$\leq 2\%$ at 501-5000Hz (Resistive Load)
Crest Factor		3
Line Regulation		$\leq 0.1\% \text{FS (Resistive Load)}$
Load Regulation		$\leq 0.5\% \text{FS (Resistive Load)}$
Dynamic Response Time		$\leq 200\mu\text{s (Typical)}$
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm (0.2\% + 0.2\% \text{FS})$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
AC current (rms)	Range	0-96Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times K_{\text{freq}}) \times \text{FS}^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
AC current (peak)	Range	0-288Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times K_{\text{freq}}) \times \text{FS}^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
Power	Resolution	10mW
	Accuracy	$\pm 0.4\% + (0.4\% + 0.2\% \times K_{\text{freq}}) \times \text{FS}^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 3^{\circ} (45-65\text{Hz})^{*5}$
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz

	Accuracy	$\pm 0.1\% + 0.1\text{Hz}$ (10Hz-999.9Hz)/ $\pm 0.1\% + 1\text{Hz}$ (1KHz-5KHz) ^{*4}
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Dimension(WxHxD)	27u x 3	

*1: Meet the voltage accuracy requirements: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

*2: FS corresponds to the full range: $V_{rms}=300\text{Vac}$; $I_{rms}=96\text{A}$; $I_{pk}=288\text{A}$; $P=36\text{KVA}$;

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: The test mode is Fast.

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*8: The maximum current range is 95% in the parallel mode.

*9: Three power supplies with 12KVA, max. 3 ϕ input current of each power supply is 120A.

Parameter	IT7634	V1.1
AC Input		
Voltage	380Vac $\pm 10\%$ (Y)	
Phase	3 ϕ	
Frequency	47-63Hz	
Max.Current	120A $\times 3$ ^{*9}	
Power Factor	0.7(Typical)	
AC Output		
Output Phase	3 ϕ	
Max. output power	45KVA	
Max.output power of each phase	15KVA	
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V	
Voltage resolution	10mV	
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times K_{freq}) \times FS$ ^{*2}	

Voltage accuracy(loop:slow) ^{*1}		$\pm 0.3\% + (0.3\% + 0.3\% \times Kfreq) \times FS^{*2}$
Temp. coefficient		$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
Max.Current(3 ϕ)	RMS	120A/60A
	Peak(CF=3)	360A/180A
Total Harmonic Distortion ^{*3}		$\leq 0.5\%$ at 10-500Hz (Resistive Load)
		$\leq 2\%$ at 501-5000Hz (Resistive Load)
Crest Factor		3
Line Regulation		$\leq 0.1\%FS$ (Resistive Load)
Load Regulation		$\leq 0.5\%FS$ (Resistive Load)
Dynamic Response Time		$\leq 200\mu\text{s}$ (Typical)
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm (0.2\% + 0.2\%FS)$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
AC current (rms)	Range	0-120Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
AC current (peak)	Range	0-360Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
Power	Resolution	10mW
	Accuracy	$\pm 0.4\% + (0.4\% + 0.2\% \times Kfreq) \times FS^{*2}$
	Temp. coefficient	$\pm (0.04\% \text{ per degree from } 25^{\circ}\text{C})$
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 3^{\circ}$ (45-65Hz) ^{*5}
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz

	Accuracy	$\pm 0.1\% + 0.1\text{Hz}$ (10Hz-999.9Hz)/ $\pm 0.1\% + 1\text{Hz}$ (1KHz-5KHz) ^{*4}
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Dimension(WxHxD)	37u x 3	

*1: Meet the voltage accuracy requirements: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

*2: FS corresponds to the full range: $V_{rms}=300\text{Vac}$; $I_{rms}=120\text{A}$; $I_{pk}=360\text{A}$; $P=45\text{KVA}$;

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: The test mode is Fast.

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*8: The maximum current range is 95% in the parallel mode.

*9: Three power supplies with 18KVA, max. 3 ϕ input current of each power supply is 120A.

Parameter	IT7636	V1.1
AC Input		
Voltage	380Vac $\pm 10\%$ (Y)	
Phase	3 ϕ	
Frequency	47-63Hz	
Max.Current	120A $\times 3$ ^{*9}	
Power Factor	0.7(Typical)	
AC Output		
Output Phase	3 ϕ	
Max. output power	54KVA	
Max.output power of each phase	18KVA	
Voltage range	High:2V-300V, Low:1V-150V, Auto:1V-150V/2V-300V	
Voltage resolution	10mV	
Voltage accuracy(loop:fast) ^{*1}	$\pm 0.2\% + (0.2\% + 0.2\% \times K_{freq}) \times FS$ ^{*2}	

Voltage accuracy(loop:slow) ^{*1}		$\pm 0.3\% + (0.3\% + 0.3\% \times Kfreq) \times FS$ ^{*2}
Temp. coefficient		$\pm(0.04\%$ per degree from 25°C)
Max.Current(3φ)	RMS	144A/72A
	Peak(CF=3)	432A/216A
Total Harmonic Distortion ^{*3}		$\leq 0.5\%$ at 10-500Hz (Resistive Load)
		$\leq 2\%$ at 501-5000Hz (Resistive Load)
Crest Factor		3
Line Regulation		$\leq 0.1\%FS$ (Resistive Load)
Load Regulation		$\leq 0.5\%FS$ (Resistive Load)
Dynamic Response Time		$\leq 200\mu s$ (Typical)
Meter		
AC voltage	Range	0-300Vac
	Resolution	10mV
	Accuracy	$\pm(0.2\% + 0.2\%FS)$
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (rms)	Range	0-144Arms
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times Kfreq) \times FS$ ^{*2}
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
AC current (peak)	Range	0-432Apeak
	Resolution	10mA
	Accuracy	$\pm 0.3\% + (0.3\% + 0.2\% \times Kfreq) \times FS$ ^{*2}
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Power	Resolution	10mW
	Accuracy	$\pm 0.4\% + (0.4\% + 0.2\% \times Kfreq) \times FS$ ^{*2}
	Temp. coefficient	$\pm(0.04\%$ per degree from 25°C)
Phase Angle	Range	0-360°
	Resolution	1°
	Accuracy	$\pm 3^\circ$ (45-65Hz) ^{*5}
Frequency	Range	10Hz-5KHz
	Resolution	0.1Hz

	Accuracy	$\pm 0.1\% + 0.1\text{Hz}$ (10Hz-999.9Hz)/ $\pm 0.1\% + 1\text{Hz}$ (1KHz-5KHz) ^{*4}
Other		
Protection	OPP,OCP,OTP	
Interface	GPIB,USB,LAN,RS232,CAN	
Dimension(WxHxD)	37u x 3	

*1: Meet the voltage accuracy requirements: Slow loop speed: 10-100Hz; Fast loop speed: 10-5KHz.

*2: FS corresponds to the full range: $V_{rms}=300\text{Vac}$; $I_{rms}=144\text{A}$; $I_{pk}=432\text{A}$; $P=54\text{KVA}$;

*3: The minimum voltage of THD test is 10Vac (Auto mode) and 20Vac (High mode).

The maximum distortion test is carried out by outputting the maximum current to linear load under 125Vac (Auto mode) and 250Vac (300V mode).

*4: The test frequency accuracy should ensure that the minimum voltage is 35Vac.

*5: The test mode is Fast.

*6: The minimum voltage setting must not be less than 50Vdc/35Vac.

*8: The maximum current range is 95% in the parallel mode.

*9: Three power supplies with 18KVA, max. 3 ϕ input current of each power supply is 120A.

9.2 Supplemental characteristics

State storage capacity: 10sets

Recommended calibration frequency: once a year

Cooling style: fans