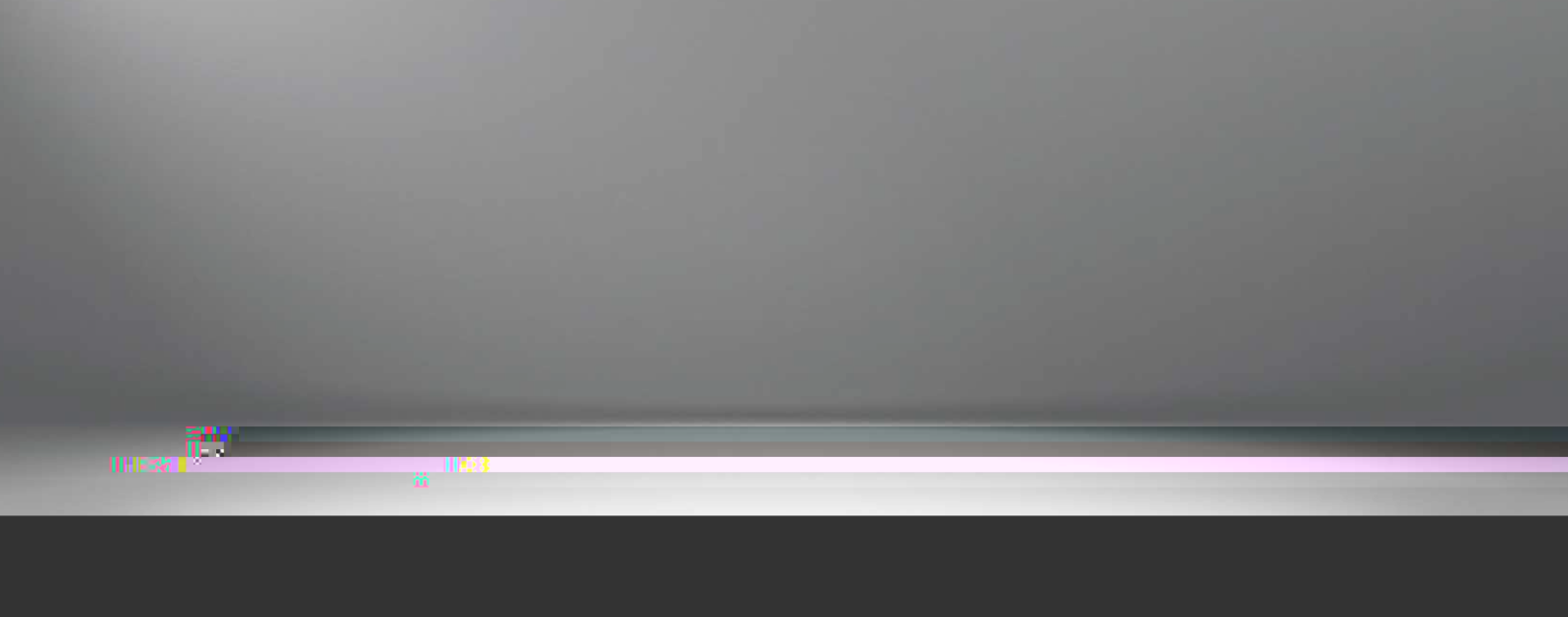




ITECH

80



IT2800

IV VS

SMU

IT2800





Your Power Testing Solution

Your Power Testing Solution

IT2800

SMU

IT2800 SMU

16

IT2800 SMU

source

Sink

IT2800
100nV/10fA
IT2806

6

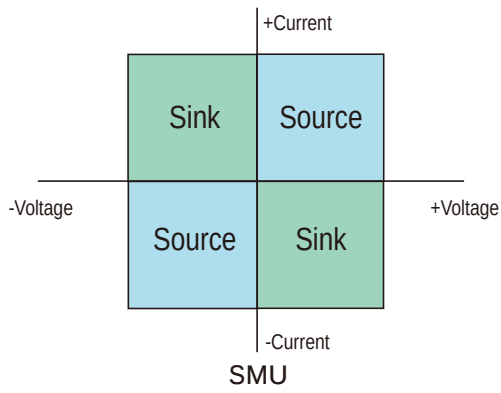
DC pulse

10A

VCSEL

LED

DUT



SMU

4

I-V

I-V

IV

IV tracer

GUI

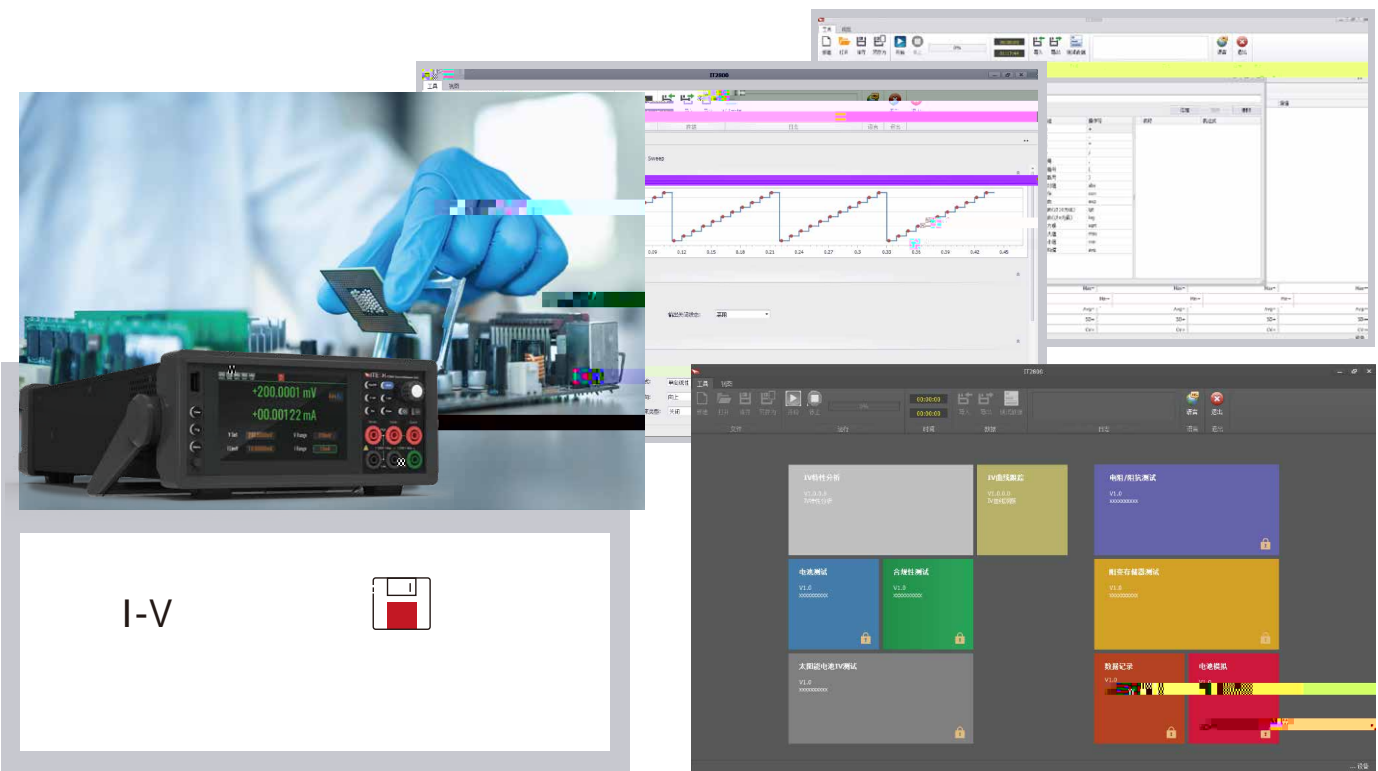
USB/LAN

PC

I-V

SMU

UI



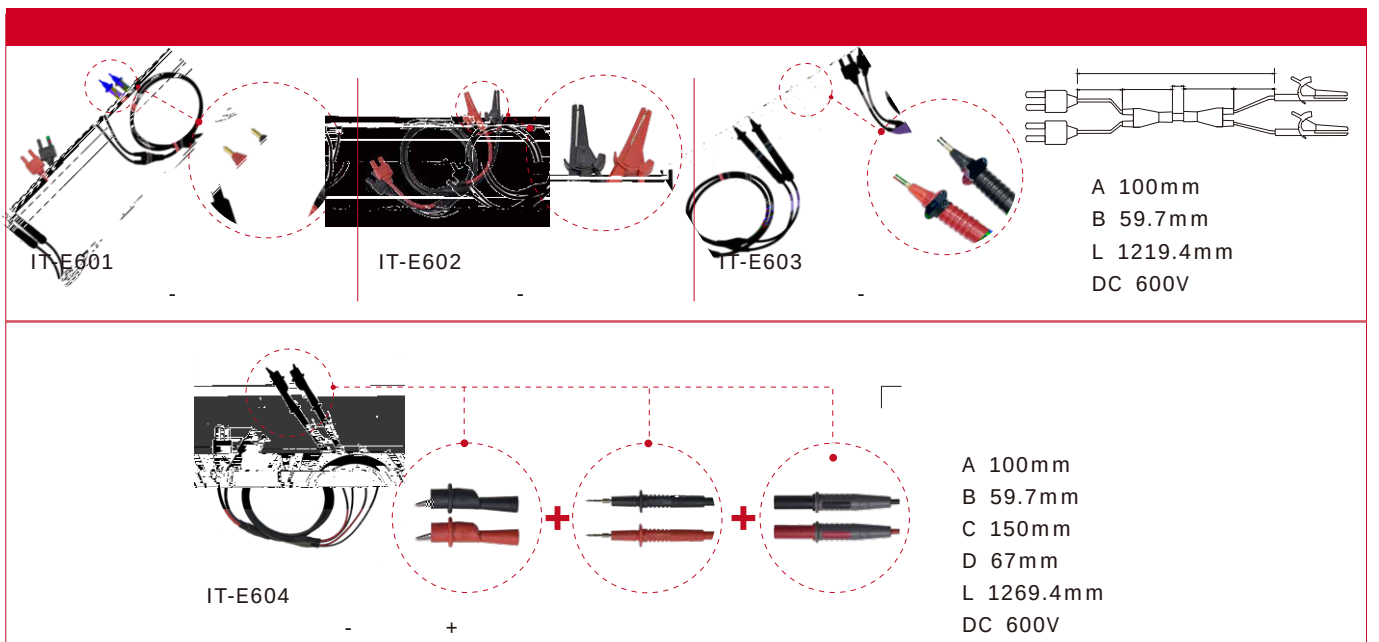
I-V



Your Power Testing Solution

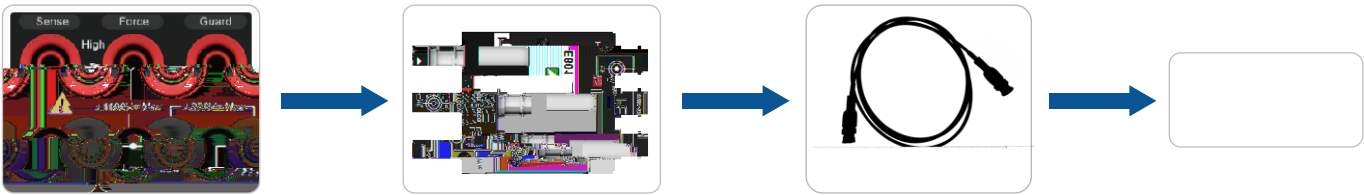
IT2800 SMU

	IT-E801A	IT2805 IT2806		
	IT-E802A	IT2801		
	IT-E801C-1.5	1.5m	IT2805	IT2806
	IT-E802C-1.5	1.5m	IT2801	
	IT-E176	GPIB		
	IT-E158A	ITECH		
	IT-E158B	ITECH		
	IT-E158C	ITECH		
	IT-E158D	ITECH		
Kelvin 4	IT-E601	300V	IT2805	IT2806
		-		
	IT-E601H	1000V	IT2801	
		-		
	IT-E602	300V	IT2805	IT2806
		-		
	IT-E602H	1000V	IT2801	
		-		
	IT-E603	300V	IT2805	IT2806
		-		
	IT-E603H	1000V	IT2801	
		-		
IT-E604	-	+	IT2805	IT2806
IT-E604H	-	+	IT2801	
	IT-E168	0.3m *1		
		1.5m	*1	
	SPS5000			

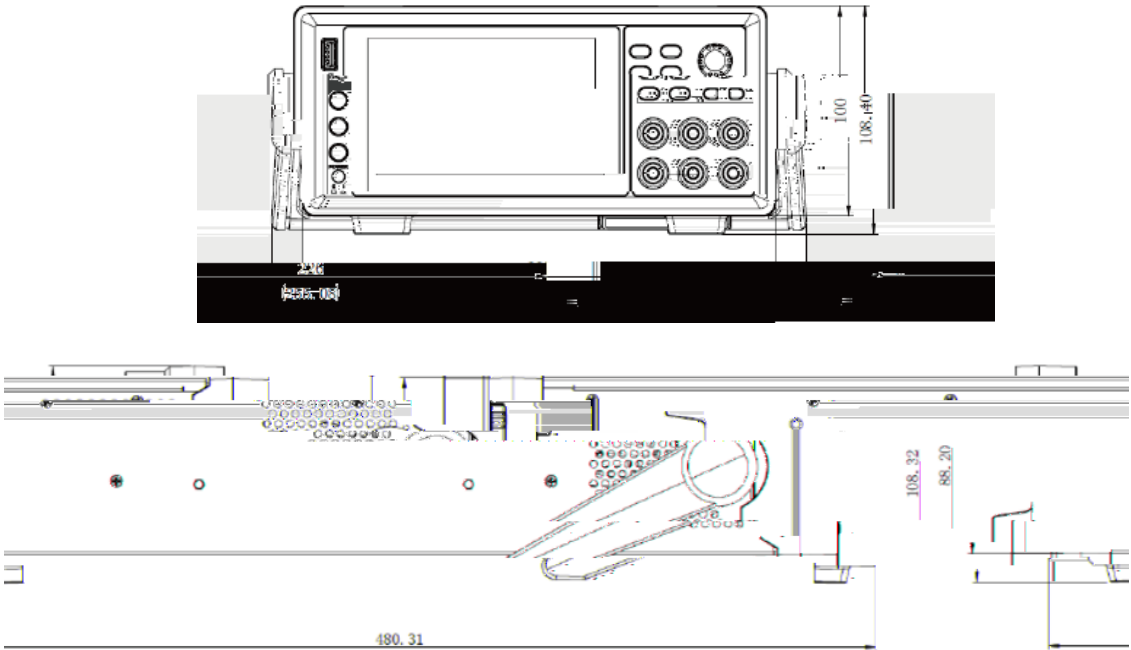


nA

IT2800



	SCPI
	USB/LAN GPIB
	PV2800 I-V SPS5000
	IVI-C IVI.NET IVI-COM Driver LabVIEW Driver



Your Power Testing Solution

IT2800 SMU

IT2806/IT2806R

0~40
0~2000M
90~260V
50/60Hz
250VA

450 mm(D)x 214 mm(W)x 88.2 mm(H)
6.7kg
20W
210V

3.03ADC/10.5A Pluse
USB/LAN/GPIB()
DB25

	200V	0.1A
	20V	1A
	6V	3A
	200V	1A
	12V	10A

	Source/Measure			p-p 10Hz
± 200mV	100nV	0.015%+300μV	0.015%+300μV	≤ 8μV
± 2V	1μV	0.015%+300μV	0.015%+300μV	≤ 10μV
± 20V	10μV	0.015%+1mV	0.015%+1mV	≤ 80μV
± 200V	100μV	0.015%+10mV	0.015%+10mV	≤ 800μV

	Source/Measure			p-p 10Hz
± 10nA	10fA	0.1%+50pA	0.1%+50pA	≤ 2pA
± 100nA	100fA	0.06%+100pA	0.06%+100pA	≤ 3 pA
± 1μA	1pA	0.025%+300pA	0.025%+300pA	≤ 10 pA
± 10μA	10pA	0.025%+700pA	0.025%+700pA	≤ 60 pA
± 100μA	100pA	0.02%+6nA	0.02%+6nA	≤ 600pA
± 1mA	1nA	0.02%+60nA	0.02%+60nA	≤ 6nA
± 10mA	10nA	0.02%+600nA	0.02%+600nA	≤ 60 nA
± 100mA	100nA	0.02%+6μA	0.02%+6μA	≤ 600 nA
± 1A	1μA	0.05%+500μA	0.05%+500μA	≤ 10 μA
± 3A	10μA	0.05%+1.5mA	0.05%+1.5mA	≤ 30 μA
± 10A *1	10μA	0.4%+25mA *2	0.4%+25mA *2	-

*1

*2 0.01PLC

4	2V			
2Ω	1μΩ	1A	1A	0.1%+300μΩ
20Ω	10μΩ	100mA	100mA	0.055%+3mΩ
200Ω	100μΩ	10mA	10mA	0.055%+30mΩ
2KΩ	1mΩ	1mA	1mA	0.055%+300mΩ
20KΩ	10mΩ	100μA	100μA	0.055%+3Ω
200KΩ	100mΩ	10μA	10μA	0.055%+30Ω
2MΩ	1Ω	1μA	1μA	0.07%+300Ω
20MΩ	10Ω	100nA	100nA	0.2%+3kΩ
200MΩ	100Ω	10nA	10nA	0.7%+30kΩ

100µs | 10µs

DC	6V	3A	3A		100%
	20V	1A	1A		100%
	200V	0.1A	0.1A		100%
	12V	10A	0.5A	1ms	2.50%
	200V	1A	50mA	2.5ms	2.50%

PLC %

PLC	200mV	2V	20V~200V
0.1PLC	0.01%	0.005%	0.005%
0.01PLC	0.05%	0.01%	0.01%
0.001PLC	0.3%	0.1%	0.1%

PLC	10nA	100nA	1µA~10µA	100µA~100mA	1A~3A
0.1PLC	0.30%	0.03%	0.01%	0.01%	0.01%
0.01PLC	1.00%	0.10%	0.05%	0.02%	0.03%
0.001PLC	3.00%	1.00%	0.30%	0.20%	0.20%

0 ~18	28 ~50	± 0.15x	/
	10Hz-20MHz	30mVp-p /4mVrms (1A Range)	
IT2806R	10Hz-20MHz	4mVrms(1ARange)	
		0.1%	
		10%~90%	
	200mV	100µS (3Arange)	
	2V	120µS (3Arange)	
	20V	250µS (1Arange)	
	200V	400µS(100mArange)	
		0.1%	
		10%~90%	
	100nA	5mS	
	1uA	600µS	
	10uA	350µS	
	100uA	200µS	
	1mA	150µS	
	10mA	150µS	
	100mA	150µS	
	1A	300µS	
	3A	80µS	
		0.1%+10mV	10%~90%
		0.1%	10%~90%
	250mV	100K	20MHz
	250mV/R	20MHz	
	0.01µF	50µf(	
	Force-	± 250V DC	
GUARD	1mV		
GUARD	10KΩ Typical		
	1GΩ	4700pF	
Sense	4V		

Your Power Testing Solution

IT2800 SMU

IT2805/IT2805R

	0~40
	0~2000M
	90~260V
	50/60Hz
	250VA

	450 mm(D)x 214 mm(W)x 88.2 mm(H)
	6.7kg
	20W
	210V

	1.515A
	USB/LAN/GPIB(
	DB25

	200V	0.1A
	20V	1A
	6V	1.5A

± 200mV	1μV	0.015%+300μV	0.015%+300μV
± 2V	10μV	0.015%+300μV	0.015%+300μV
± 20V	100μV	0.015%+1mV	0.015%+1mV
± 200V	1mV	0.015%+10mV	0.015%+10mV

± 10nA	100fA	0.1%+50pA	0.1%+50pA
± 100nA	1pA	0.06%+100pA	0.06%+100pA
± 1μA	10pA	0.025%+300pA	0.025%+300pA
± 10μA	100pA	0.025%+700pA	0.025%+700pA
± 100μA	1nA	0.02%+6nA	0.02%+6nA
± 1mA	10nA	0.02%+60nA	0.02%+60nA
± 10mA	100nA	0.02%+600nA	0.02%+600nA
± 100mA	1μA	0.02%+6μA	0.02%+6μA
± 1A	10μA	0.05%+500μA	0.05%+500μA
± 1.5A	10μA	0.05%+1.5mA	0.05%+1.5mA
			± 100nA

100µs | 10µs

DC	6V	1.5A	1.5A		100%
	20	1A	1A		100%
	200	0.1A	0.1A		100%

PLC

%

PLC	200mV	2V	20V~200V
0.1PLC	0.01%	0.005%	0.005%
0.01PLC	0.05%	0.01%	0.01%
0.001PLC	0.30%	0.10%	0.10%

PLC	10nA	100nA	1µA~10uA	100µA~100mA	1A~1.5A
0.1PLC	0.30%	0.03%	0.01%	0.01%	0.01%
0.01PLC	1.00%	0.10%	0.05%	0.02%	0.03%
0.001PLC	3.00%	1.00%	0.30%	0.20%	0.20%

0 ~18	28 ~50	± 0.15x	/
	10Hz~20MHz	30mVp-p / 4mVrms (1A Range	
IT2805R	10Hz-20MHz)	4mVrms(1ARange	
		0.1%	
		10%~90%	
	200mV	100µS (1.5ARange)	
	2V	120µS (3ARange)	
	20V	250µS (1ARange)	
	200V	400µS(100mARange)	
		0.1%	
		10%~90%	
	100nA	5mS	
	1uA	600µS	
	10uA	350µS	
	100uA	200µS	
	1mA	150µS	
	10mA	150µS	
	100mA	150µS	
	1A	300µS	
	1.5A	<100uS	
		0.1%+10mV	10%~90%
		0.1%	10%~90%
	250mV	100K	20MHz
	250mV/R	20MHz	
	0.01µF	50µf(	
	Force-	± 250V DC	
GUARD	1mV		
GUARD	10KΩ Typical		
	1GΩ	4700pF	
Sense	4V		

Your Power Testing Solution

IT2800 SMU

IT2801/IT2801R

	0~40
	0~2000M
	90~260V
	50/60Hz
	250VA

	)

	Source/Measure			p-p 10Hz
± 200mV	100nV	0.015%+300μV	0.015%+300μV	≤ 25μV
± 2V	1μV	0.015%+300μV	0.015%+300μV	≤ 25μV
± 20V	10μV	0.015%+1mV	0.015%+1mV	≤ 200μV
± 200V	100μV	0.015%+10mV	0.015%+10mV	≤ 2mV
± 1000V	1mV	0.02%+50mV	0.02%+50mV	≤ 10mV

	Source/Measure			p-p 10Hz
± 1μA	1pA	0.025%+300pA	0.025%+300pA	≤ 8pA
± 10μA	10pA	0.025%+700pA	0.025%+700pA	≤ 80pA
± 100μA	100pA	0.025%+6nA	0.025%+6nA	≤ 800pA
± 1mA	1nA	0.025%+60nA	0.025%+60nA	≤ 8nA
± 10mA	10nA	0.025%+600nA	0.025%+600nA	≤ 80nA
± 100mA	100nA	0.025%+6μA	0.025%+6μA	≤ 800nA
± 1A	1μA	0.03%+500μA	0.03%+500μA	≤ 30uA

4	2V			
2Ω	1μΩ	1A	1A	0.1%+300μΩ
20Ω	10μΩ	100mA	100mA	0.055%+3mΩ
200Ω	100μΩ	10mA	10mA	0.055%+30mΩ
2KΩ	1mΩ	1mA	1mA	0.055%+300mΩ
20KΩ	10mΩ	100μA	100μA	0.055%+3Ω
200KΩ	100mΩ	10μA	10μA	0.055%+30Ω
2MΩ	1Ω	1μA	1μA	0.07%+300Ω
20MΩ	10Ω	100nA	1μA	0.35%+3KΩ

PLC %

PLC	1μA~10uA	100μA~100mA	1A	200mV	2V	20V~1000V
0.1PLC	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%
0.01PLC	0.08%	0.05%	0.03%	0.05%	0.05%	0.02%
0.001PLC	0.50%	0.5%	0.20%	0.20%	0.10%	0.05%



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