

## 5.1 Specifications

## Chapter5 Specifications

Model	IT6831A V1.1	
<b>Rated Value</b> $(0 \sim 40^{\circ}\text{C})$	<b>Voltage</b>	0~18V
	<b>Current</b>	0~10A
	<b>Power</b>	180W
<b>Load regulation</b> $\pm(\% \text{ of Output+Offset})$	<b>Voltage</b>	$\leq 0.01\% + 6\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 5\text{mA}$
<b>Line regulation</b> $\pm(\% \text{ of Output+Offset})$	<b>Voltage</b>	$\leq 0.02\% + 6\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 5\text{mA}$
<b>Programming Resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	0.1mA( $< 10\text{A}$ )/1mA( $\geq 10\text{A}$ )
<b>Readback resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	0.1mA( $< 10\text{A}$ )/1mA( $\geq 10\text{A}$ )
<b>Programming accuracy</b> <b>12 month</b> <b>(<math>25^{\circ}\text{C} \pm 5^{\circ}\text{C}</math>)</b> $\pm(\% \text{ of Output+Offset})$	<b>Voltage</b>	$\leq 0.04\% + 8\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 12\text{mA}$
<b>Readback accuracy</b> <b>12 month</b> <b>(<math>25^{\circ}\text{C} \pm 5^{\circ}\text{C}</math>)</b> $\pm(\% \text{ of Output+Offset})$	<b>Voltage</b>	$\leq 0.04\% + 8\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 12\text{mA}$
<b>Ripple</b> $(20\text{Hz} - 20\text{MHz})$	<b>Voltage</b>	$\leq 4\text{mVp-p and } 1.5\text{mVrms}$
	<b>Current</b>	$\leq 7\text{mA rms}$
<b>Setup Temperature Coefficient</b> $(\% \text{ of Output}/^{\circ}\text{C} + \text{Offset})$	<b>Voltage</b>	$0.01\% + 3\text{mV}$
	<b>Current</b>	$0.01\% + 2\text{mA}$
<b>Read Back Temperature Coefficient</b> $(\% \text{ of Output}/^{\circ}\text{C} + \text{Offset})$	<b>Voltage</b>	$0.01\% + 3\text{mV}$
	<b>Current</b>	$0.01\% + 2\text{mA}$
<b>Rising slope (no load)</b>	<b>Voltage</b>	$\leq 100\text{mS}$
<b>Rising slope (full load)</b>	<b>Voltage</b>	$\leq 100\text{mS}$
<b>descending slope (no load)</b>	<b>Voltage</b>	$\leq 200\text{mS}$
<b>descending slope (full load)</b>	<b>Voltage</b>	$\leq 100\text{mS}$
<b>Transient response time</b>	$\leq 100\mu\text{s ( Typical)}$	
	50%-100% Freq=1K 75mV	
<b>AC Input</b>	<b>Voltage1</b>	$110\text{V} \pm 10\%$
	<b>Voltage3</b>	$220\text{V} \pm 10\%$
	<b>Frequency</b>	47HZ-63HZ
<b>Setup stability-8h</b> $(\% \text{ of Output} + \text{Offset})$	<b>Voltage</b>	$\leq 0.02\% + 3\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 2\text{mA}$
<b>Readback stability-8h</b> $(\% \text{ of Output} + \text{Offset})$	<b>Voltage</b>	$\leq 0.02\% + 3\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 2\text{mA}$
<b>Fuse specification</b>	6.3A(110V)/3.15A(220V)	
<b>Remote Sense Compensation Voltage</b>	1V	

<b>Command Response Time</b>	20mS ( Typical)
Power Factor	0.7 ( Typical)
Max.Current	4.5A(110V)/2.2A(220V)
<b>Maximum input apparent power</b>	750VA
<b>Storage temperature</b>	-10°C~70°C
Protection	OVP/OTP
Interface	USB/RS232
<b>Isolation ( output to ground)</b>	200V
Operation Environment	0~40°C
Dimension (mm)	214.5mmW*88.2mmH*354.6mmD
Weight	7.2Kg

Model		IT6832A	IT6833A
<b>Output Ratings</b>	<b>Voltage / Current</b>	0-32V/0-6A	0-72V/0-3A
<b>Load regulation</b>	<b>Voltage</b>	≤0.01%+5mV	≤0.01%+4mV
	<b>Current</b>	≤0.01%+3mA	≤0.01%+2mA
<b>Line regulation</b>	<b>Voltage</b>	≤0.01%+5mV	≤0.01%+4mV
	<b>Current</b>	≤0.01%+3mA	≤0.01%+2mA
<b>Programming Resolution</b>	<b>Voltage</b>	1mV	1mV
	<b>Current</b>	0.1mA	0.1mA
<b>Readback resolution</b>	<b>Voltage</b>	1mV	1mV
	<b>Current</b>	0.1mA	0.1mA
<b>Programming accuracy 12 month ( 25°C±5°C )</b>	<b>Voltage</b>	≤0.04%+8mV	≤0.04%+8mV
	<b>Current</b>	≤0.1%+8mA	≤0.1%+5mA
<b>Readback accuracy 12 month ( 25°C±5°C )</b>	<b>Voltage</b>	≤0.04%+8mV	≤0.04%+8mV
	<b>Current</b>	≤0.1%+8mA	≤0.1%+5mA
<b>Ripple&amp;Noise (20HZ-20M)</b>	<b>Normal mode Voltage</b>	≤4mVp-p and 1mVrms	≤4mVp-p and 1mVrms
	<b>Normal mode Current</b>	<6mA rms	<5mA rms
	<b>Common mode Current</b>	<1.5uArms	<1.5uArms
<b>Transient response time ( Recover to 75mV )</b>	50%-100% load	100us	100us
<b>voltage settling time</b>	rise 10%-90%	<100ms	<150ms
	fall 10%-90%	<350ms	<550ms

Model		IT6832A	IT6833A
Dimension (mm)		214.5mmW*88.2mmH*354.6mmD	
Weight		7.4Kg	

Model	IT6835A	
Rated Value ( 0~40 °C )	Voltage	0~50V
	Current	0~4A
	Power	200W
Load regulation ±(% of Output+Offset)	Voltage	≤0.01%+5mV
	Current	≤0.1%+3mA
Line regulation ±(% of Output+Offset)	Voltage	≤0.02%+5mV
	Current	≤0.1%+3mA
Programming Resolution	Voltage	1mV
	Current	1mA
Readback resolution	Voltage	1mV
	Current	1mA
Programming accuracy 12 month (25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.04%+8mV
	Current	≤0.1%+8mA
Readback accuracy 12 month (25°C±5°C) ±(% of Output+Offset)	Voltage	≤0.04%+8mV
	Current	≤0.1%+8mA
Ripple (20Hz -20MHz)	Voltage	≤3mVp-p and 1mVrms
	Current	≤6mA rms
Setup Temperature Coefficient (% of Output/°C+Offset)	Voltage	0.01%+3mV
	Current	0.01%+2mA
Read Back Temperature Coefficient (% of Output/°C+Offset)	Voltage	0.01%+3mV
	Current	0.01%+2mA
Rising slope (no load)	Voltage	≤100mS
Rising slope (full load)	Voltage	≤100mS
descending slope (no load)	Voltage	≤550mS
descending slope (full load)	Voltage	≤100mS
Transient response time	≤50uS ( Typical)	
	50%-100% Freq=1K 75mV	
AC Input	Voltage1	110V±10%
	Voltage3	220V±10%
	Frequency	47HZ-63HZ
Setup stability-8h (% of Output +Offset)	Voltage	≤0.02%+3mV
	Current	≤0.1%+2mA
Readback stability-8h (% of Output +Offset)	Voltage	≤0.02%+3mV
	Current	≤0.1%+2mA
Remote Sense Compensation Voltage	1V	
Command Response Time	20mS ( Typical)	

<b>Fuse specification</b>	6.3A(110V)/3.15A(220V)
Power Factor	0.7 ( Typical)
<b>Maximum input apparent power</b>	750VA
<b>Storage temperature</b>	-10°C~70°C
Protection	OVP/OTP
Interface	USB/RS232
<b>Isolation ( output to ground)</b>	200V
Operation Environment	0~40°C
Dimension (mm)	214.5mmW*88.2mmH*354.6mmD
Weight	7.2Kg

Model		IT6861A	IT6862A	IT6863A
<b>Output Ratings</b>	Dual range output	0-20V,5A/0-8V,9A	0-32V,3A/0-12V,6A	0-72V,1.5A/0-32V,3A
<b>Load regulation</b>	<b>Voltage</b>	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV
	<b>Current</b>	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA
<b>Line regulation</b>	<b>Voltage</b>	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV
	<b>Current</b>	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA
<b>Programming Resolution</b>	<b>Voltage</b>	1mV	1mV	1mV
	<b>Current</b>	0.1mA	0.1mA	0.1mA
<b>Readback resolution</b>	<b>Voltage</b>	1mV	1mV	1mV
	<b>Current</b>	0.1mA	0.1mA	0.1mA
<b>Programming accuracy 12 month (25°C±5°C)</b>	<b>Voltage</b>	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	<b>Current</b>	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
<b>Readback accuracy 12 month (25°C±5°C)</b>	<b>Voltage</b>	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	<b>Current</b>	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
<b>Ripple (20HZ-20M)</b>	<b>Voltage</b>	≤3mVp-p	≤4mVp-p	≤3mVp-p
	<b>Current</b>	≤9mA rms	<7mA rms	<6mA rms
<b>Transient response time</b>	Recover to 75mV (50%~100%load)	<50uS	<50uS	<50uS
<b>Rise time</b>	10%-90%	<90ms	<90ms	<90ms
<b>Fall time</b>	90%-10%	<150ms	<200ms	<250ms
<b>Sample Rate</b>		10HZ/S	10HZ/S	10HZ/S
<b>Protection</b>		OTP;OVP	OTP;OVP	OTP;OVP
<b>Dimension(mm)</b>		214.5mmW*88.2mmH*354.6mmD		
<b>Weight</b>		8.5Kg		

Model		IT6872A
<b>Output Ratings</b>	Dual range output	0-35V,4A /0-15V,7A

<b>Load regulation</b>	<b>Voltage</b>	$\leq 0.01\% + 5mV$
	<b>Current</b>	$\leq 0.01\% + 3mA$
<b>Line regulation</b>	<b>Voltage</b>	$\leq 0.01\% + 5mV$
	<b>Current</b>	$\leq 0.01\% + 3mA$
<b>Programming Resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	0.1mA
<b>Readback resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	0.1mA
<b>Programming accuracy 12 month (25°C±5°C)</b>	<b>Voltage</b>	$\leq 0.04\% + 8mV$
	<b>Current</b>	$\leq 0.1\% + 5mA$
<b>Readback accuracy 12 month (25°C±5°C)</b>	<b>Voltage</b>	$\leq 0.04\% + 8mV$
	<b>Current</b>	$\leq 0.1\% + 5mA$
<b>Ripple&amp;Noise (20HZ-20M)</b>	<b>Normal mode Voltage</b>	$\leq 3mVp-p / 1mVrms$
	<b>Normal mode Current</b>	<6mA rms
	<b>Common mode Current</b>	<1.5uA rms
<b>Transient response time</b>	<b>Recover to 75mV (50%~100%load)</b>	<50us
<b>Rise time</b>	<b>10%-90%</b>	<90ms
<b>Fall time</b>	<b>90%-10%</b>	<350ms
<b>Dimension(mm)</b>		214.5mmW*88.2mmH*354.6mmD
<b>Weight</b>		7.1Kg

Model	IT6873A	
<b>Output Ratings (0 °C~40 °C)</b>	<b>Voltage</b>	H:0-75V L:0-32V
	<b>Current</b>	H:0-2A L:0-4A
	<b>Power</b>	H:150W L:128W
<b>Load regulation ±(% of output+offset)</b>	<b>Voltage</b>	$\leq 0.01\% + 4mV$
	<b>Current</b>	$\leq 0.01\% + 2mA$
<b>Line regulation ±(% of output+offset)</b>	<b>Voltage</b>	$\leq 0.01\% + 4mV$
	<b>Current</b>	$\leq 0.01\% + 2mA$

<b>Programming Resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	0.1mA
<b>Readback resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	0.1mA
<b>Programming accuracy 12 month (25°C±5°C)</b>	<b>Voltage</b>	≤0.04%+8mV
	<b>Current</b>	≤0.1%+5mA
<b>Readback accuracy 12 month (25°C±5°C)</b>	<b>Voltage</b>	≤0.04%+8mV
	<b>Current</b>	≤0.1%+5mA
<b>Ripple (20Hz ~20MHz)</b>	<b>Voltage</b>	≤3mVp-p/1mVrms
	<b>Current</b>	≤6mA rms
<b>Rise time</b>	<b>Voltage</b>	≤120mS(10%-90%)
<b>Fall time</b>	<b>Voltage</b>	≤450m(90%-10%)
<b>Transient response time</b>	<b>Voltage</b>	50us (50%-100% load Recover to 75mV)
<b>Sample rate</b>		10HZ/S
<b>Protection</b>		OTP;OVP
<b>Dimension (mm)</b>		214.5mmW×88.2mmH×354.6mmD
<b>Weight</b>		8.5Kg

<b>Model</b>		<b>IT6874A</b>
<b>Output Ratings ( 0 °C~40 °C)</b>	<b>Voltage</b>	H:0-150V L:0-60V
	<b>Current</b>	H:0-1.2A L:0-2A
	<b>Power</b>	H:180W L:120W
<b>Load regulation ±(% of</b>	<b>Voltage</b>	≤0.01%+4mV

<b>output+offset)</b>	<b>Current</b>	$\leq 0.01\% + 2mA$
<b>Line regulation</b> $\pm(\% \text{ of output+offset})$	<b>Voltage</b>	$\leq 0.01\% + 4mV$
	<b>Current</b>	$\leq 0.01\% + 2mA$
<b>Programming Resolution</b>	<b>Voltage</b>	1mV(<100V) 10mV( $\geq 100V$ )
	<b>Current</b>	0.1mA
<b>Readback resolution</b>	<b>Voltage</b>	1mV(<100V) 10mV( $\geq 100V$ )
	<b>Current</b>	0.1mA
<b>Programming accuracy</b> 12 month ( $25^\circ C \pm 5^\circ C$ )	<b>Voltage</b>	$\leq 0.05\% + 20mV$
	<b>Current</b>	$\leq 0.1\% + 5mA$
<b>Readback accuracy</b> 12 month ( $25^\circ C \pm 5^\circ C$ )	<b>Voltage</b>	$\leq 0.05\% + 20mV$
	<b>Current</b>	$\leq 0.1\% + 5mA$
<b>Ripple</b> (20Hz ~20MHz)	<b>Voltage</b>	$\leq 5mV_{p-p}/1.5mV_{rms}$
	<b>Current</b>	$\leq 6mA_{rms}$
<b>Rise time</b>	<b>Voltage</b>	$\leq 150ms(10\%-90\%)$
<b>Fall time</b>	<b>Voltage</b>	$\leq 2.5s(90\%-10\%)$
<b>Transient response time</b>	<b>Voltage</b>	100us (50%-100% load Recover to 75mV)
<b>Sample rate</b>		10HZ/S
<b>Protection</b>		OTP;OVP
<b>Dimension (mm)</b>		214.5mmWx88.2mmHx354.6mmD
<b>Weight</b>		8.5Kg

<b>Model</b>		<b>IT6832B</b>	<b>IT6833B</b>
<b>Output Ratings</b>	<b>Voltage / Current</b>	0-32V/0-6A	0-72V/0-3A
<b>Load regulation</b>	<b>Voltage</b>	$\leq 0.01\% + 5mV$	$\leq 0.01\% + 4mV$

	<b>Current</b>	$\leq 0.01\% + 3mA$	$\leq 0.01\% + 2mA$
<b>Line regulation</b>	<b>Voltage</b>	$\leq 0.01\% + 5mV$	$\leq 0.01\% + 4mV$
	<b>Current</b>	$\leq 0.01\% + 3mA$	$\leq 0.01\% + 2mA$
<b>Programming Resolution</b>	<b>Voltage</b>	1mV	1mV
	<b>Current</b>	0.1mA	0.1mA
<b>Readback resolution</b>	<b>Voltage</b>	1mV	1mV
	<b>Current</b>	0.1mA	0.1mA
<b>Programming accuracy 12 month ( 25°C±5°C )</b>	<b>Voltage</b>	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$
	<b>Current</b>	$\leq 0.1\% + 8mA$	$\leq 0.1\% + 5mA$
<b>Readback accuracy 12 month ( 25°C±5°C )</b>	<b>Voltage</b>	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$
	<b>Current</b>	$\leq 0.1\% + 8mA$	$\leq 0.1\% + 5mA$
<b>Ripple&amp;Noise (20HZ-20M)</b>	<b>Normal mode Voltage</b>	$\leq 4mVp-p$ and 1mVrms	$\leq 4mVp-p$ and 1mVrms
	<b>Normal mode Current</b>	<6mA rms	<5mA rms
	<b>Common mode Current</b>	<1.5uA rms	<1.5uA rms
<b>Transient response time (Recover to 75mV)</b>	50%-100% load	100us	100us
<b>Voltage settling time</b>	rise 10%-90%	<100ms	<150ms
	fall 10%-90%	<350ms	<550ms
<b>Dimension (mm)</b>	214.5mmW*88.2mmH*354.6mmD		
<b>Weight</b>	7.1Kg		7.7Kg

<b>Model</b>		<b>IT6835B</b>
<b>Rated Value ( 0~40 °C )</b>	<b>Voltage</b>	0~50V
	<b>Current</b>	0~4A
	<b>Power</b>	200W
<b>Load regulation ±(% of Output+Offset)</b>	<b>Voltage</b>	$\leq 0.01\% + 5mV$
	<b>Current</b>	$\leq 0.1\% + 3mA$
<b>Line regulation ±(% of Output+Offset)</b>	<b>Voltage</b>	$\leq 0.02\% + 5mV$
	<b>Current</b>	$\leq 0.1\% + 3mA$
<b>Programming Resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	1mA
<b>Readback resolution</b>	<b>Voltage</b>	1mV
	<b>Current</b>	1mA
<b>Programming accuracy 12 month (25°C±5°C)</b>	<b>Voltage</b>	$\leq 0.04\% + 8mV$
	<b>Current</b>	$\leq 0.1\% + 8mA$

$\pm(\% \text{ of Output+Offset})$		
<b>Readback accuracy</b> <b>12 month</b> <b>(25°C±5°C)</b> $\pm(\% \text{ of Output+Offset})$	<b>Voltage</b>	$\leq 0.04\% + 8\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 8\text{mA}$
<b>Ripple</b> (20Hz -20MHz)	<b>Voltage</b>	$\leq 3\text{mVp-p and } 1\text{mVrms}$
	<b>Current</b>	$\leq 6\text{mA rms}$
<b>Setup Temperature Coefficient</b> (% of Output/°C +Offset)	<b>Voltage</b>	$0.01\% + 3\text{mV}$
	<b>Current</b>	$0.01\% + 2\text{mA}$
<b>Read Back Temperature Coefficient</b> (% of Output/°C +Offset)	<b>Voltage</b>	$0.01\% + 3\text{mV}$
	<b>Current</b>	$0.01\% + 2\text{mA}$
<b>Rising slope (no load)</b>	<b>Voltage</b>	$\leq 100\text{mS}$
<b>Rising slope (full load)</b>	<b>Voltage</b>	$\leq 100\text{mS}$
<b>descending slope (no load)</b>	<b>Voltage</b>	$\leq 550\text{mS}$
<b>descending slope (full load)</b>	<b>Voltage</b>	$\leq 100\text{mS}$
<b>Transient response time</b>	$\leq 50\mu\text{s} \text{ ( Typical)}$	
	50%-100% Freq=1K 75mV	
<b>AC Input</b>	<b>Voltage1</b>	$110\text{V}\pm 10\%$
	<b>Voltage3</b>	$220\text{V}\pm 10\%$
	<b>Frequency</b>	47HZ-63HZ
<b>Setup stability-8h</b> (% of Output +Offset)	<b>Voltage</b>	$\leq 0.02\% + 3\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 2\text{mA}$
<b>Readback stability-8h</b> (% of Output +Offset)	<b>Voltage</b>	$\leq 0.02\% + 3\text{mV}$
	<b>Current</b>	$\leq 0.1\% + 2\text{mA}$
<b>Remote Sense Compensation Voltage</b>	1V	
<b>Command Response Time</b>	20mS ( Typical)	
<b>Fuse specification</b>	6.3A(110V)/3.15A(220V)	
<b>Power Factor</b>	0.7 (Typical)	
<b>Maximum input apparent power</b>	750VA	
<b>Storage temperature</b>	$-10^\circ\text{C} \sim 70^\circ\text{C}$	
<b>Protection</b>	OVP/OTP	
<b>Interface</b>	GPIB/USB/RS232	
<b>Isolation ( output to ground)</b>	200V	
<b>Operation Environment</b>	$0 \sim 40^\circ\text{C}$	
<b>Dimension (mm)</b>	214.5mmW*88.2mmH*354.6mmD	
<b>Weight</b>	7.2Kg	

Model		IT6861B	IT6862B	IT6863B
Output	Dual range	0-20V,5A/0-8V,9A	0-32V,3A/0-12V,6A	0-72V,1.5A/0-32V,3A

Ratings	output			
Load regulation	Voltage	$\leq 0.01\% + 4mV$	$\leq 0.01\% + 3mV$	$\leq 0.01\% + 3mV$
	Current	$\leq 0.01\% + 2mA$	$\leq 0.01\% + 2mA$	$\leq 0.01\% + 2mA$
Line regulation	Voltage	$\leq 0.01\% + 4mV$	$\leq 0.01\% + 3mV$	$\leq 0.01\% + 3mV$
	Current	$\leq 0.01\% + 2mA$	$\leq 0.01\% + 2mA$	$\leq 0.01\% + 2mA$
Programming Resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA
Readback resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA
Programming accuracy 12 month (25°C±5°C)	Voltage	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$
	Current	$\leq 0.1\% + 5mA$	$\leq 0.1\% + 5mA$	$\leq 0.1\% + 5mA$
Readback accuracy 12 month (25°C±5°C)	Voltage	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$
	Current	$\leq 0.1\% + 5mA$	$\leq 0.1\% + 5mA$	$\leq 0.1\% + 5mA$
Ripple (20HZ-20M)	Voltage	$\leq 3mV_{pp}$	$\leq 4mV_{pp}$	$\leq 3mV_{pp}$
	Current	$\leq 9mA_{rms}$	$\leq 7mA_{rms}$	$\leq 6mA_{rms}$
Transient response time	Recover to 75mV (50%~100%load)	<50uS	<50uS	<50uS
Rise time	Voltage	$\leq 90mS(10\%-90\%)$	$\leq 90mS(10\%-90\%)$	$\leq 90mS(10\%-90\%)$
Fall time	Voltage	$\leq 150m(90\%-10\%)$	$\leq 200m(90\%-10\%)$	$\leq 250m(90\%-10\%)$
Sample rate		10HZ/S	10HZ/S	10HZ/S
Protection		OTP;OVP	OTP;OVP	OTP;OVP
Dimension (mm)		214.5mmW*88.2mmH*354.6mmD		
Weight		8.5Kg		

Model		IT6872B	IT6873B
Output Ratings	Dual range output	0-35V,4A /0-15V,7A	0-75V,2A /0-32V,4A
Load regulation	Voltage	$\leq 0.01\% + 5mV$	$\leq 0.01\% + 4mV$
	Current	$\leq 0.01\% + 3mA$	$\leq 0.01\% + 2mA$
Line regulation	Voltage	$\leq 0.01\% + 5mV$	$\leq 0.01\% + 4mV$
	Current	$\leq 0.01\% + 3mA$	$\leq 0.01\% + 2mA$
Programming Resolution	Voltage	1mV	1mV
	Current	0.1mA	0.1mA
Readback resolution	Voltage	1mV	1mV
	Current	0.1mA	0.1mA
Programming accuracy 12 month (25°C±5°C)	Voltage	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$
	Current	$\leq 0.1\% + 5mA$	$\leq 0.1\% + 5mA$
Readback accuracy 12 month	Voltage	$\leq 0.04\% + 8mV$	$\leq 0.04\% + 8mV$
	Current	$\leq 0.1\% + 5mA$	$\leq 0.1\% + 5mA$

(25°C±5°C)			
Ripple&Noise	Normal mode Voltage	≤3mVp-p /1mVRms	≤3mVp-p /1mVRms
	Normal mode Current	<6mA rms	<6mA rms
	Common mode Current	<1.5uA rms	<1.5uA rms
Transient response time	Recover to 75mV (50%~100%load)	<50us	<50us
Rise time	10%-90%	<90ms	<120ms
Fall time	90%-10%	<350ms	<450ms

Model		IT6874B
Output Ratings (0 °C~40 °C)	Voltage	H:0-150V L:0-60V
	Current	H:0-1.2A L:0-2A
	Power	H:180W L:120W
Load regulation ±(% of output+offset)	Voltage	≤0.01%+4mV
	Current	≤0.01%+2mA
Line regulation ±(% of output+offset)	Voltage	≤0.01%+4mV
	Current	≤0.01%+2mA
Programming Resolution	Voltage	1mV(<100V) 10mV(≥100V)
	Current	0.1mA
Readback resolution	Voltage	1mV(<100V) 10mV(≥100V)
	Current	0.1mA
Programming accuracy 12 month (25°C±5°C)	Voltage	≤0.05%+20mV
	Current	≤0.1%+5mA
Readback accuracy 12 month (25°C±5°C)	Voltage	≤0.05%+20mV
	Current	≤0.1%+5mA
Ripple (20Hz ~20MHz)	Voltage	≤5mVp-p/1.5mVRms

	<b>Current</b>	≤6mArms
<b>Rise time</b>	<b>Voltage</b>	≤150ms(10%-90%)
<b>Fall time</b>	<b>Voltage</b>	≤2.5s(90%-10%)
<b>Transient response time</b>	<b>Voltage</b>	100us (50%-100% load Recover to 75mV)
<b>Sample rate</b>		10HZ/S
<b>Protection</b>		OTP;OVP
<b>Dimension (mm)</b>		214.5mmW×88.2mmH×354.6mmD
<b>Weight</b>		8.5Kg

The above specifications may be subject to change without prior notice.

## 5.2 Supplementary Characteristics

Memory capacity:9\*8 registeres

Suggested calibration frequency:Once a year

AC input level(A transfer switch is selectable on the rear panel)

Option Opt.01: 220VAC ± 10%, 47 to 63 Hz

Option Opt.02: 110 VAC ± 10%, 47 to 63 Hz

Cooling type

Intelligent fans