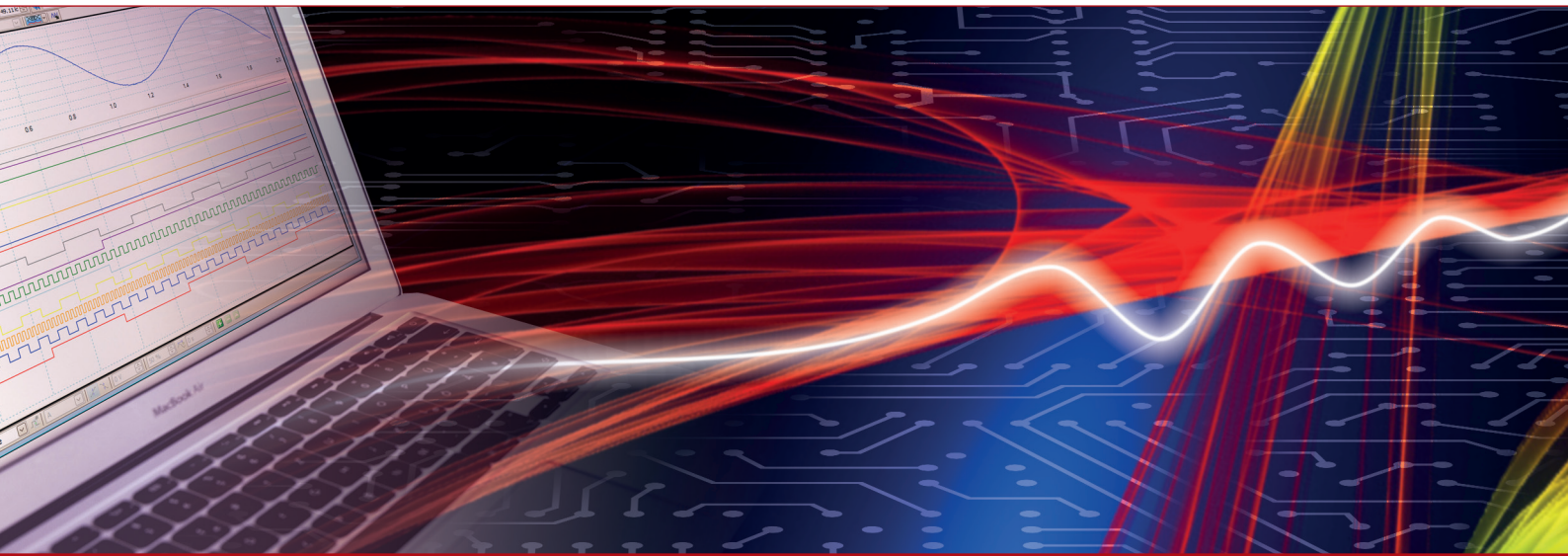


Product Datasheet - Technical Specifications



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Tel.: **+49 - 81 41 - 52 71-0**

FAX: **+49 - 81 41 - 52 71-129**

E-Mail: sales@meilhaus.com

Downloads:

www.meilhaus.com/en/infos/download.htm

Meilhaus Electronic GmbH
Am Sonnenlicht 2
82239 Alling/Germany

Tel.	+49 - 81 41 - 52 71-0
Fax	+49 - 81 41 - 52 71-129
E-Mail	sales@meilhaus.com

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Chapter5 Specifications

5.1 Specifications

Model		IT6831A	V1.1
Rated Value (0~40 ℃)	Voltage	0~18V	
	Current	0~10A	
	Power	180W	
Load regulation ±(% of Output+Offset)	Voltage	≤0.01%+6mV	
	Current	≤0.1%+5mA	
Line regulation ±(% of Output+Offset)	Voltage	≤0.02%+6mV	
	Current	≤0.1%+5mA	
Programming Resolution	Voltage	1mV	
	Current	0.1mA(<10A)/1mA(≥10A)	
Readback resolution	Voltage	1mV	
	Current	0.1mA(<10A)/1mA(≥10A)	
Programming accuracy 12 month (25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.04%+8mV	
	Current	≤0.1%+12mA	
Readback accuracy 12 month (25℃±5℃) ±(% of Output+Offset)	Voltage	≤0.04%+8mV	
	Current	≤0.1%+12mA	
Ripple (20Hz -20MHz)	Voltage	≡ 4mVp-p and 1.5mVrms	
	Current	≤7mA _{rms}	
Setup Temperature Coefficient (% of Output/℃+Offset)	Voltage	0.01%+3mV	
	Current	0.01%+2mA	
Read Back Temperature Coefficient (% of Output/℃+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	≤200mS	
descending slope (full load)	Voltage	≤100mS	
Transient response time	≤100uS (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	
Fuse specification	6.3A(110V)/3.15A(220V)		
Remote Sense Compensation Voltage	1V		

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

Model		IT6832A	IT6833A
Output Ratings	Voltage / Current	0-32V/0-6A	0-72V/0-3A
Load regulation	Voltage	≤0.01%+5mV	≤0.01%+4mV
	Current	≤0.01%+3mA	≤0.01%+2mA
Line regulation	Voltage	≤0.01%+5mV	≤0.01%+4mV
	Current	≤0.01%+3mA	≤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℃±5℃)	Voltage	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+8mA	≤0.1%+5mA
Readback accuracy 12 month (25℃±5℃)	Voltage	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+8mA	≤0.1%+5mA
Ripple&Noise (20HZ-20M)	Normal mode Voltage	≤4mVp-p and 1mVrms	≤4mVp-p and 1mVrms
	Normal mode Current	<6mArms	<5mArms
	Common mode Current	<1.5uArms	<1.5uArms
Transient response time (Recover to 75mV)	50%-100% load	100us	100us
voltage settling time	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	≤6mArms	
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%	
	Frequen cy	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)		

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

Model		IT6861A	IT6862A	IT6863A
Output Ratings	Dual range output	0-20V,5A/0-8V,9A	0-32V,3A/0-12V,6A	0-72V,1.5A/0-32V,3A
Load regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV
	Current	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA
Line regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV
	Current	≤0.01%+2mA	≤0.01%+2mA	≤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℃±5℃)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Readback accuracy 12 month (25℃±5℃)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Ripple (20HZ-20M)	Voltage	≤3mVp-p	≤4mVp-p	≤3mVp-p
	Current	≤9mArms	<7mArms	<6mArms
Transient response time	Recover to 75mV (50%~100%load)	<50uS	<50uS	<50uS
Rise time	10%-90%	<90ms	<90ms	<90ms
Fall time	90%-10%	<150ms	<200ms	<250ms
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		IT6872A
Output Ratings	Dual range output	0-35V,4A /0-15V,7A

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

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

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

Model		IT6874A
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	Voltage	≤0.01%+4mV

output+offset)	Current	$\leq 0.01\% + 2\text{mA}$
Line regulation $\pm(\%$ of output+offset)	Voltage	$\leq 0.01\% + 4\text{mV}$
	Current	$\leq 0.01\% + 2\text{mA}$
Programming Resolution	Voltage	1mV(<100V) 10mV($\geq 100\text{V}$)
	Current	0.1mA
Readback resolution	Voltage	1mV(<100V) 10mV($\geq 100\text{V}$)
	Current	0.1mA
Programming accuracy 12 month (25°C $\pm 5^\circ\text{C}$)	Voltage	$\leq 0.05\% + 20\text{mV}$
	Current	$\leq 0.1\% + 5\text{mA}$
Readback accuracy 12 month (25°C $\pm 5^\circ\text{C}$)	Voltage	$\leq 0.05\% + 20\text{mV}$
	Current	$\leq 0.1\% + 5\text{mA}$
Ripple (20Hz ~20MHz)	Voltage	$\leq 5\text{mVp-p}/1.5\text{mVrms}$
	Current	$\leq 6\text{mA}_{\text{rms}}$
Rise time	Voltage	$\leq 150\text{ms}(10\%-90\%)$
Fall time	Voltage	$\leq 2.5\text{s}(90\%-10\%)$
Transient response time	Voltage	100us (50%-100% load Recover to 75mV)
Sample rate	10HZ/S	
Protection	OTP;OVP	
Dimension (mm)	214.5mmW $\times$ 88.2mmH $\times$ 354.6mmD	
Weight	8.5Kg	

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

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

Model		IT6835B
Rated Value ($0 \sim 40^{\circ}\text{C}$)	Voltage	0~50V
	Current	0~4A
	Power	200W
Load regulation $\pm(\% \text{ of Output} + \text{Offset})$	Voltage	$\leq 0.01\% + 5\text{mV}$
	Current	$\leq 0.1\% + 3\text{mA}$
Line regulation $\pm(\% \text{ of Output} + \text{Offset})$	Voltage	$\leq 0.02\% + 5\text{mV}$
	Current	$\leq 0.1\% + 3\text{mA}$
Programming Resolution	Voltage	1mV
	Current	1mA
Readback resolution	Voltage	1mV
	Current	1mA
Programming accuracy 12 month ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)	Voltage	$\leq 0.04\% + 8\text{mV}$
	Current	$\leq 0.1\% + 8\text{mA}$

±(% of Output+Offset)		
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	≤6mArms
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)	
Fuse specification	6.3A(110V)/3.15A(220V)	
Power Factor	0.7 (Typical)	
Maximum input apparent power	750VA	
Storage temperature	-10°C~70°C	
Protection	OVP/OTP	
Interface	GPIB/USB/RS232	
Isolation (output to ground)	200V	
Operation Environment	0~40°C	
Dimension (mm)	214.5mmW*88.2mmH*354.6mmD	
Weight	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	$\leq 0.01\% + 4\text{mV}$	$\leq 0.01\% + 3\text{mV}$	$\leq 0.01\% + 3\text{mV}$
	Current	$\leq 0.01\% + 2\text{mA}$	$\leq 0.01\% + 2\text{mA}$	$\leq 0.01\% + 2\text{mA}$
Line regulation	Voltage	$\leq 0.01\% + 4\text{mV}$	$\leq 0.01\% + 3\text{mV}$	$\leq 0.01\% + 3\text{mV}$
	Current	$\leq 0.01\% + 2\text{mA}$	$\leq 0.01\% + 2\text{mA}$	$\leq 0.01\% + 2\text{mA}$
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	$\leq 0.04\% + 8\text{mV}$	$\leq 0.04\% + 8\text{mV}$	$\leq 0.04\% + 8\text{mV}$
	Current	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$
Readback accuracy 12 month (25°C±5°C)	Voltage	$\leq 0.04\% + 8\text{mV}$	$\leq 0.04\% + 8\text{mV}$	$\leq 0.04\% + 8\text{mV}$
	Current	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$
Ripple (20HZ-20M)	Voltage	$\leq 3\text{mVp-p}$	$\leq 4\text{mVp-p}$	$\leq 3\text{mVp-p}$
	Current	$\leq 9\text{mA}_{\text{rms}}$	$\leq 7\text{mA}_{\text{rms}}$	$\leq 6\text{mA}_{\text{rms}}$
Transient response time	Recover to 75mV (50%~100%load)	$< 50\mu\text{S}$	$< 50\mu\text{S}$	$< 50\mu\text{S}$
Rise time	Voltage	$\leq 90\text{mS}(10\%-90\%)$	$\leq 90\text{mS}(10\%-90\%)$	$\leq 90\text{mS}(10\%-90\%)$
Fall time	Voltage	$\leq 150\text{m}(90\%-10\%)$	$\leq 200\text{m}(90\%-10\%)$	$\leq 250\text{m}(90\%-10\%)$
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	$\leq 0.01\% + 5\text{mV}$	$\leq 0.01\% + 4\text{mV}$
	Current	$\leq 0.01\% + 3\text{mA}$	$\leq 0.01\% + 2\text{mA}$
Line regulation	Voltage	$\leq 0.01\% + 5\text{mV}$	$\leq 0.01\% + 4\text{mV}$
	Current	$\leq 0.01\% + 3\text{mA}$	$\leq 0.01\% + 2\text{mA}$
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	$\leq 0.04\% + 8\text{mV}$	$\leq 0.04\% + 8\text{mV}$
	Current	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$
Readback accuracy 12 month	Voltage	$\leq 0.04\% + 8\text{mV}$	$\leq 0.04\% + 8\text{mV}$
	Current	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$

(25°C±5°C)			
Ripple&Noise	Normal mode Voltage	≤3mVp-p /1mVrms	≤3mVp-p /1mVrms
	Normal mode Current	<6mArms	<6mArms
	Common mode Current	<1.5uArms	<1.5uArms
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

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

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

5.2 Supplementary Characteristics

Memory capacity:9*8 registers

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