

Product Datasheet - Technical Specifications



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Chapter5 Technical Specification

This chapter will introduce the main technical parameters of IT6900, such as rated voltage/current/power and so on. Besides, we will introduce the working environment and storage temperature.

5.1 Major Technical Parameters

Parameters		IT6922A	IT6932A	IT6942A
Rated values (0 °C~40 °C)	voltage	0~60V	0~60V	0~60V
	current	0~5A	0~10A	0~15A
	Power	100W	200W	360W
Load regulation ±(%of output+offset)	voltage	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+30mV
	current	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA
Line regulation ±(%of output+offset)	voltage	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+30mV
	current	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA
Setup resolution	voltage	1mV	1mV	1mV
	current	0.1mA	1mA	1mA
Readback resolution	voltage	1mV	1mV	1mV
	current	0.1mA	1mA	1mA
Setup accuracy (within twelve months) (25°C±5°C) ±(%of output+offset)	voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV
	current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA
Read back resolution (W) (25°C±5°C) ±(%of output+offset)	voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV
	current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA
Ripple (20Hz ~20MHz)	voltage	≤5mVp-p	≤8mVp-p	≤15mVp-p
	current	≤5mArms	≤6mArms	≤8mArms
Sample rate	10HZ			
Dimension (mm)	214.5mmW×88.2mmH×354.6mmD			
Weight (net)	7.7Kg			

Parameters		IT6933A
Rated values (0 °C~40 °C)	voltage	0-150V
	current	0-5A
	Power	200W
AC Input	voltage	220VAC ±10%/110VAC ±10%
	Frequency	47 Hz ~63Hz
Maximum input current	2A	
Maximum input apparent power	500VA	
Efficiency	0.55	
Power Factor	0.7	
Load regulation ±(%of output+offset)	voltage	≤0.01%+20mV
	current	≤0.01%+6mA
Line regulation ±(%of output+offset)	voltage	≤0.01%+20mV
	current	≤0.01%+6mA
Setup resolution	voltage	1mV(<100V), 10mV(≥100V)
	current	0.1mA
Readback resolution	voltage	1mV(<100V), 10mV(≥100V)
	current	0.1mA
Setup accuracy (within twelve months) (25°C±5°C) ±(%of output+offset)	voltage	≤0.04%+30mV
	current	≤0.1%+10mA
Read back resolution (W) (25°C±5°C) ±(%of output+offset)	voltage	≤0.04%+30mV
	current	≤0.1%+10mA
Ripple(20Hz ~20MHz)	voltage	≤30mVp-p
	current	≤6mA _{rms}
Rise time(No-load)	voltage	200ms
Rise time(Full-load)	voltage	300ms
Fall time(No-load)	voltage	2s
Fall time(Full-load)	voltage	150ms
Transient Response Time	200us	
Remote Sense Compensation	1V	
Command Response Time	10~600ms	
Difference-mode voltage(Vpp)	50mV	
Difference-mode current (Arms)	20mA	
Setup Temp.coefficient (0 °C~40 °C)	voltage	50 PPM/°C +30mV
	current	50 PPM/°C+30mA

Readback Temp.coefficient (0 °C~40 °C)	voltage	50 PPM/°C+30mV
	current	50 PPM/°C+30mA
Working temperature	0-40°C	
Storage temperature	-10-70°C	
Series number	2	
Parallel number	2	
Isolation(output to ground)	240V	
Dimension (mm)	214.5mmW×88.2mmH×354.6mmD	
Weight (net)	7.7Kg	

Parameters		IT6952A	IT6953A
Rated values (0 °C~40 °C)	voltage	0~60V	0~150V
	current	0~25A	0~10A
	Power	600W	600W
Load regulation ±(%of output+offset)	voltage	≤0.01%+30mV	≤0.01%+25mV
	current	≤0.1%+10mA	≤0.05%+10mA
Line regulation ±(%of output+offset)	voltage	≤0.01%+30mV	≤0.01%+25mV
	current	≤0.1%+10mA	≤0.05%+10mA
Setup resolution	voltage	1mV	1mV(<100V) 10mV(>100V)
	current	1mA	1mA
Readback resolution	voltage	1mV	1mV(<100V) 10mV(>100V)
	current	1mA	1mA
Setup accuracy (within twelve months) (25°C±5°C) ±(%of output+offset)	voltage	≤0.03%+5mV	≤0.03%+20mV
	current	≤0.1%+25mA	≤0.1%+25mA
Read back resolution (W) (25°C±5°C) ±(%of output+offset)	voltage	≤0.03%+5mV	≤0.03%+20mV
	current	≤0.1%+25mA	≤0.1%+25mA
Ripple (20Hz ~20MHz)	voltage	≤20mVp-p	≤50mVp-p
	current	≤15mArms	≤15mArms
Sample rate	10HZ		
Dimension (mm)	214.5mmW×88.2mmH×445mmD		
Weight (net)	15Kg		

Parameters		IT6922B	IT6932B
Rated values (0 °C~40 °C)	voltage	0~60V	0~60V
	current	0~5A	0~10A
	Power	100W	200W
Load regulation ±(%of output+offset)	voltage	≤0.01%+3mV	≤0.01%+10mV
	current	≤0.05%+2mA	≤0.05%+4mA
Line regulation ±(%of output+offset)	voltage	≤0.01%+3mV	≤0.01%+10mV
	current	≤0.05%+2mA	≤0.05%+4mA
Setup resolution	voltage	1mV	1mV
	current	0.1mA	1mA
Readback resolution	voltage	1mV	1mV
	current	0.1mA	1mA
Setup accuracy (within twelve months) (25°C±5°C) ±(%of output+offset)	voltage	≤0.03%+5mV	≤0.03%+5mV
	current	≤0.1%+5mA	≤0.1%+10mA
Read back resolution (W) (25°C±5°C) ±(%of output+offset)	voltage	≤0.03%+5mV	≤0.03%+5mV
	current	≤0.1%+5mA	≤0.1%+10mA
Ripple (20Hz ~20MHz)	voltage	≤5mVp-p	≤8mVp-p
	current	≤5mArms	≤6mArms
Sample rate	10HZ		
Dimension (mm)	214.5mmW×88.2mmH×354.6mmD		
Weight (net)	7.7Kg		

Parameters		IT6942B	IT6952B
Rated values (0 °C~40 °C)	voltage	0~60V	0~60V
	current	0~15A	0~25A
	Power	360W	600W
Load regulation ±(%of output+offset)	voltage	≤0.01%+30mV	≤0.01%+30mV
	current	≤0.05%+6mA	≤0.1%+10mA
Line regulation	voltage	≤0.01%+30mV	≤0.01%+30mV

Parameters		IT6942B	IT6952B
\pm (%of output+offset)	current	$\leq 0.05\%+6\text{mA}$	$\leq 0.1\%+10\text{mA}$
Setup resolution	voltage	1mV	1mV
	current	0.1mA	0.1mA
Readback resolution	voltage	1mV	1mV
	current	0.1mA(<10A) 1mA(>10A)	0.1mA(<10A) 1mA(>10A)
Setup accuracy (within twelve months) (25°C±5°C) \pm (%of output+offset)	voltage	$\leq 0.03\%+5\text{mV}$	$\leq 0.03\%+5\text{mV}$
	current	$\leq 0.1\%+15\text{mA}$	$\leq 0.1\%+25\text{mA}$
Read back resolution (W) (25°C±5°C) \pm (%of output+offset)	voltage	$\leq 0.03\%+5\text{mV}$	$\leq 0.03\%+5\text{mV}$
	current	$\leq 0.1\%+15\text{mA}$	$\leq 0.1\%+25\text{mA}$
Ripple (20Hz ~20MHz)	voltage	$\leq 15\text{mVp-p}$	$\leq 20\text{mVp-p}$
	current	$\leq 8\text{mA}_{\text{rms}}$	$\leq 15\text{mA}_{\text{rms}}$
Rise time	voltage	$\leq 150\text{mS}(10\%-90\%)$	$\leq 150\text{mS}(10\%-90\%)$
Fall time	voltage	$\leq 2\text{S}(10\%-90\%)$	$\leq 2\text{S}(10\%-90\%)$
Sample rate		10HZ/S	10HZ/S
Dimension (mm)		214.5mmW×88.2mmH×354.6mmD	214.5mmW×88.2mmH× 445mmD
Weight (net)		7.7Kg	15Kg

Parameters		IT6953B
Rated values (0 °C~40 °C)	voltage	0~150V
	current	0~10A
	power	600W
Load regulation \pm (%of output+offset)	voltage	$\leq 0.01\%+25\text{mV}$
	current	$\leq 0.5\%+10\text{mA}$
Line regulation \pm (%of output+offset)	voltage	$\leq 0.01\%+25\text{mV}$
	current	$\leq 0.5\%+10\text{mA}$
Setup resolution	voltage	1mV(<100V) 10mV(≥100V)
	current	0.1mA
Readback resolution	voltage	1mV(<100V) 10mV(≥100V)
	current	0.1mA
Setup accuracy (within twelve months) (25°C±5°C) \pm (%of output+offset)	voltage	$\leq 0.03\%+20\text{mV}$
	current	$\leq 0.1\%+25\text{mA}$

Read back resolution (W) (25°C±5°C) ±(%of output+offset)	voltage	≤0.03%+20mV
	current	≤0.1%+25mA
Ripple (20Hz ~20MHz)	voltage	≤50mVp-p
	current	≤15mArms
Rise time	voltage	≤150mS(10%-90%)
Fall time	voltage	≤7S(90%-10%)
Transient Response Time	voltage	0.2mS
Sample rate	10HZ/S	
Dimension(mm)	214.5mmW×88.2mmH×445mmD	
Weight (net)	15Kg	

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

5.2 Supplemental Characteristics

State storage capacity: 9×8 Groups

Recommended calibration frequency: once a year

Cooling style: fans

Maximum input power:

Model	Maximum input power	Model	Maximum input power
IT6922A	350VA	IT6942A	1000VA
IT6932A	550VA	IT6952A	2000VA
IT6933A	550VA	IT6953A	2000VA
IT6922B	350VA	IT6932B	550VA
IT6942B	1000VA	IT6952B	2000VA
IT6953B	2000VA	-	-