

## Model IT6513 Programmable Power Supply

## IT6500 series DC Programmable Power Supply



IT6500 series programmable power supply with 1mV 1mA high resolution and accuracy. IT6500 series products can function in CV or CC mode, integrated voltage sequence according to DIN 40839. It is the best solution for your laboratory tests, production tests and other applications with a small size of 1U.

$\square$	Feature		
	VFD Display High accuracy and high resolution with 1mV/1mA Low ripple and low noise Adjustable rising time and decending time Integrated voltage sequence according to DIN 40839 1U size Built-in USB/RS232/RS485/GPIB communication interface		
	Connected in serial or parallel Remote sense function Intelligent fans cooling to save energy and reduce noise SCPI communication protocol		

## Standard accessories

Power cord Calibration report User's manual

ParameterIT6513Rating value (0°C - 40°C)Voltage0~150VRating value (0°C - 40°C)Current0~30APower0-1200WPowerLoad Regulation ±(% of output+offset)Voltage<0.05%+30mVCurrent<0.02%+20mVCurrentLine Regulation ±(%ofoutput+offset)Voltage3mVSetup Resolution ±(%ofoutput+offset)Voltage3mVReadback ResolutionVoltage3mVReadback currentVoltage3mVSetup Accuracy ±(%of output+offset)Voltage3mVReadback Accuracy ±(%of output+offset)Voltage3mVReadback Accuracy ±(%of output+offset)Voltage0.05%+30mVReadback Accuracy ±(%of output+offset)Voltage0.05%+30mVReadback Accuracy ±(%of output+offset)Voltage0.05%+30mVReadback Accuracy ±(%of output+offset)Voltage0.05%+30mVReadback Accuracy ±(%of output+offset)Voltage0.05%+30mVReadback Accuracy ±(%of output+offset)Voltage0.02%+0.1%FSReadback Accuracy ±(%of output+offset)Voltage0.02%+0.1%FSReadback (0°C - 40°C) ±(%of output+offset)Voltage0.02%+10mATemp. Coefficient (0°C - 40°C) ±(%of output+offset)Voltage<0.02%+30mVUnrent (0°C - 40°C) ±(%ofCurrent<0.05%+10mADimension (mm)415mmt+x500mmD	Specifications				
Rating value (0 °C - 40 °C)Current0~30ACurrent0~1200WLoad Regulation $\pm(\% of$ output+offset)Voltage<0.05%+30mVLine Regulation $\pm(\% of output+offset)$ Voltage<0.02%+20mVCurrent<0.02%+10mAMarceVoltage3mVSetup ResolutionVoltage3mVReadback ResolutionVoltage3mVCurrent1mASetup Accuracy $\pm(\% of$ output+offset)Voltage3mVCurrent1mAReadback ResolutionVoltage3mVCurrent1mAReadback Accuracy $\pm(\% of$ output+offset)Voltage0.05%+30mVCurrent<0.02%+0.1%FSReadback Accuracy $\pm(\% of$ output+offset)Voltage0.05%+30mVTemp. Coefficient (0 °C ~ 40 °C)Voltage<0.02%+0.1%FSTemp. Coefficient (mm)Voltage<0.02%+10mADimension (mm)415mmW×44.5mmHx500mmD	Parameter	IT6513			
$\begin{array}{c c} (0 \ \mbox{C} - 40 \ \mbox{C}) & \ \mbox{Current} & 0-30 \ \mbox{Power} & 0-1200 \ \mbox{W} & \ \mbox{Power} & 0-1200 \ \mbox{W} & \ \mbox{W} & \ \mbox{Current} & 0.05\%+30 \ \mbox{P} & \ \mbox{W} & \ \mbox{Current} & 0.1\%+30 \ \mbox{P} & \ \mbox{M} & \ \mbox{Current} & 0.02\%+20 \ \mbox{W} & \ \mbox{W} & \ \mbox{Current} & 0.02\%+20 \ \mbox{W} & \ \mbox{W} & \ \mbox{Current} & 0.02\%+10 \ \mbox{M} & \ \mbox{M} & \ \mbox{M} & \ \mbox{W} & \ \mbox{Current} & 0.02\%+10 \ \mbox{M} & \ \mbox{M}$	- <i></i> .	Voltage	0~150V		
Load Regulation $\pm(\% of$ output+offset)Voltage<0.05%+30mV		Current	0~30A		
$  \frac{t(\% of output+offset)}{output+offset)} = 0 $ $  \frac{t(\% of output+offset)}{current} = 0.1\%+30mA $ $  \frac{Line Regulation }{t(\% of output+offset)} = 0.02\%+20mV $ $  \frac{Voltage}{Current} = 0.02\%+10mA $ $  \frac{Voltage}{Setup Resolution} = 0.02\%+10mA $ $  \frac{Voltage}{Current} = 1mA $ $  \frac{Voltage}{Resolution} = 0.05\%+30mV $ $  \frac{t(\% of output+offset)}{current} = 0.05\%+30mV $ $  \frac{t(\% of output+offset)}{current} = 0.05\%+30mV $ $  \frac{Voltage}{Current} = 0.05\%+30mV $ $  \frac{Vopp}{Current} = 0.05\%+30mV $ $  \frac{Vopp}{Current} = 0.02\%+0.1\%FS $ $  \frac{Vop}{Current} = 0.00\%+0.0\%F $ $  \frac{Vop}{Current} = 0.00\%+0$		Power	0~1200W		
output+offset)Current<0.1%+30mA		Voltage	<0.05%+30mV		
Line Regulation ±(%ofoutput+offset)Current<0.02%+10mA		Current	<0.1%+30mA		
$bir {\begin{tabular}{ c c }{l c } \hline \begin{tabular}{ c }{l c } \hline \bedin{tabular}{ c }{l c } \hline \bedin$	Line Regulation	Voltage	<0.02%+20mV		
Setup ResolutionCurrent1mAReadback ResolutionVoltage3mVCurrent1mASetup Accuracy $\pm(%of$ output+offset)Voltage<0.05%+30mVCurrent<0.2%+0.1%FSReadback Accuracy $\pm(%of$ output+offset)Voltage<0.05%+30mVReadback Accuracy $\pm(%of$ output+offset)Voltage<0.05%+30mVReadback Accuracy $\pm(%of$ output+offset)Voltage<0.05%+30mVReadback Accuracy $\pm(%of$ output+offset)Voltage<0.05%+30mVReadback Accuracy $\pm(%of$ Voltage<0.02%+0.1%FSReadback Accuracy $\pm(%of$ Vpp<60mVp-pRippleVpp<60mVp-pIrms40mArms $\phi(n) \cap (m)$ Voltage<0.02%+30mV $\phi(n) \cap (m)$ <0.05%+10mADimension (mm)415mmW×444.5mmH×500mmD		Current	<0.02%+10mA		
$ \begin{array}{c c c c c } & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Sotup Posolution	Voltage	3mV		
Readback ResolutionCurrent1mACurrent1mASetup Accuracy $\pm(\%of$ output+offset)Voltage<0.05%+30mVCurrent<0.2%+0.1%FSReadback Accuracy $\pm(\%of$ output+offset)Voltage0.05%+30mVReadback Accuracy $\pm(\%of$ output+offset)Voltage0.05%+30mVReadback Accuracy $\pm(\%of$ output+offset)Voltage0.05%+30mVRippleVoltage0.02%+0.1%FSRippleVpp<60mVp-pIrms40mArms $(0 \ C \sim 40 \ C)$ $\pm(\% of output+offset)$ Voltage<0.02%+30mVDimension (mm)415mmW×44.5mmHx500mmD	Setup Resolution	Current	1mA		
Current1mASetup Accuracy $\pm(%of$ output+offset)Voltage<0.05%+30mVCurrent<0.2%+0.1%FSReadback Accuracy $\pm(%of$ output+offset)Voltage0.05%+30mVReadback Accuracy $\pm(%of$ Voltage0.05%+30mVReadback Accuracy $\pm(%of$ Voltage0.05%+30mVReadback Accuracy $\pm(%of$ Voltage0.02%+0.1%FSRippleVpp<60mVp-pRippleIrms40mArmsTemp. Coefficient (0 °C ~ 40 °C) $\pm(%$ of output+offset)Voltage<0.02%+30mVCurrent<0.05%+10mADimension (mm)415mmW×44.5mmH×500mmD	Readback	Voltage	3mV		
$\frac{\pm(\% of}{output+offset)} = \frac{1}{2} (\% of)$ $\frac{\pm(\% of}{output+offset)} = Current <0.2\%+0.1\%FS$ $\frac{Readback}{Accuracy} \\ \frac{\pm(\% of}{output+offset)} = Voltage = 0.05\%+30mV$ $Current <0.2\%+0.1\%FS$ $\frac{Vp}{Current} = \frac{0.2\%+0.1\%FS}{0.2\%+0.1\%FS}$ $\frac{Vp}{Irms} = \frac{40mArms}{40mArms}$ $\frac{Voltage}{1} = \frac{0.2\%+0.1\%FS}{0}$ $\frac{Vp}{Irms} = \frac{0.2\%+0.1\%FS}{0}$	Resolution	Current	1mA		
output+offset)Current<0.2%+0.1%FS		Voltage	<0.05%+30mV		
Accuracy ±(%of output+offset) $\forall 0$ inage $0.05\%+30$ mVCurrent $0.05\%+30$ mVCurrent $0.2\%+0.1\%$ FSRipple $\forall pp$ $<60$ mVp-pIrms $40$ mArmsTemp. Coefficient (0 $\mathbb{C} \sim 40 \mathbb{C}$ ) $\forall 0$ ltage $<0.02\%+30$ mV±(% of output+offset)Current $<0.05\%+10$ mADimension (mm) $415$ mmW×44.5 mmH×500 mmD		Current	<0.2%+0.1%FS		
output+offset)         Current         <0.2%+0.1%FS	Accuracy	Voltage	0.05%+30mV		
Ripple         Irms         40mArms           Temp. Coefficient (0 ° ~ 40 °) ±(% of output+offset)         Voltage         <0.02%+30mV           Current         <0.05%+10mA           Dimension (mm)         415mmH×500mmD		Current	<0.2%+0.1%FS		
Irms         40mArms           Temp. Coefficient (0 ° ~ 40 °) ±(% of output+offset)         Voltage         <0.02%+30mV           ±(% of output+offset)         Current         <0.05%+10mA           Dimension (mm)         415mmW×44.5mmH×500mmD	Ripple	Vpp	<60mVp-p		
(0 °C ~ 40 °C)       ±(% of output+offset)       Current       <0.05%+10mA         Dimension (mm)       415mmW×44.5mmH×500mmD		Irms	40mArms		
±(% of output+offset)Current<0.05%+10mA		Voltage	<0.02%+30mV		
(mm) 415mmW×44.5mmH×500mmD	±(% of output+offset)	Current	<0.05%+10mA		
Weight 8.5kg		415mmW×44.5mmH×500mmD			
	Weight	8.5kg			

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