

Product Datasheet - Technical Specifications



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IT-N2121

Parameter		IT-N2121	
Rated values	Voltage	0 - 80V	Voc 95V
	Current	0 - 25A	
	Power	0 - 800W	
	Resistance	0 - 9.999Ω	
Line regulation ±(%of Output+Offset)	Voltage	≤0.01%+2mV	Sense mode
	Current	≤0.01%+1.5mA	
Load regulation ±(%of Output+Offset)	Voltage	≤0.01%+2mV	Sense mode
	Current	≤0.01%+1mA	
Setup resolution	Voltage	10mV	
	Current	1mA	
	Power	/	
	Resistance	/	
Readback resolution	Voltage	1mV	
	Current	1mA	
	Power	/	
Setup accuracy	Voltage	≤0.03%+20mV	
	Current	≤0.05%+10mA	
	Power	/	
	Resistance	/	
Readback accuracy	Voltage	≤0.03%+15mV	
	Current	≤0.05%+8mA	
	Power	/	
Ripple (20hz-20Mhz)	Voltage	≤300mVp-p/≤40mVrms	
Ripple (20hz-300Khz)	Voltage RMS	40mVrms	
	Current RMS	≤8mArms	30mA _{p-p}
Setup Temp.coefficient (%of Output+Offset)/°C	Voltage	≤0.003%+1mV	
	Current	≤0.015%+0.27mA	
Readback Temp.coefficient (%of Output+Offset)/°C	Voltage	≤0.002%+0.8mV	
	Current	≤0.012%+0.27mA	
Rise time(No-load)	Voltage	≤20ms	The voltage rise and fall time refers to the change of the set value, the set

			value is 1%-100% or 100%-1%
Rise time(Full-load)	Voltage	≤20ms	The current rise and fall time refers to the change of the set value, set value 1%-100% or 100%-1%
Fall time(No-load)	Voltage	≤20ms	Current rise time ≤50us 10%-90%
Fall time(Full-load)	Voltage	≤20ms	Current drop time ≤50us 10%-90%
Transient response time	Voltage	150us	50%-100% load recovery to 100mV
AC input	Voltage	220V/110V	
	Frequency	50/60Hz	
Setup stability -30min (%of Output +Offset)	Voltage	≤0.01%+1mV	
	Current	≤0.02%+1.5mA	
Setup stability -8h (%of Output +Offset)	Voltage	≤0.015%+1.2mV	
	Current	≤0.02%+2mA	
Readback stability -30min (%of Output +Offset)	Voltage	≤0.01%+1mV	
	Current	≤0.02%+1.5mA	
Readback stability -8h (%of Output +Offset)	Voltage	≤0.015%+1.2mV	
	Current	≤0.02%+2mA	
Efficiency		60% (Typical)	
Remote Sense Compensation		≤2V	
Command Response		≤15ms	
Power Factor		≥0.98	
Maximum input current		11A	
Maximum input apparent power		1100VA	
Storage temperature		-10°C - 70°C	
Protective function		OVP/OCP	
Communication Interface		LAN/USB	
Isolation (output to ground)		1500Vdc	
Isolation (input to ground)		1500Vac	

Working temperature	0 - 40°C	
Fuse Specifications	T15A	The fuse is inside the power supply
Number of parallel machines	Not Support	
Number of machines in series	No limit	The output terminal common mode voltage does not exceed 1500VDC
Protection class	IP20	
Safety Regulation	IEC 61010	
Cooling Style	Fans	
Dimension (Removal handle, etc., assembly dimensions)	450 mm (D) x 214 mm (W) x 88.2 mm(H)	
Dimension(Overall)	529.5 mm (D) x 255 mm (W) x 108.2 mm(H)	
Weight (net weight)	9kg	

Supplementary Note

	Parameter		Remark
IO	Voltage input range of IO ports	0~5V	
	IO input pin source and sink I _{MAX}	47mA	
	Voltage output range of IO ports	0~5V	
	IO output pin source and sink I _{MAX}	0.45mA	
	IO port response time	10ms	Minimum action time, from given signal to trigger action
	IO port to output DC	<15V	The damage is short circuit, the maximum current is 1A
LIST	LIST bandwidth	-	
	Voltage/Current Step Resolution	1mV 1mA	
	Signal rise and fall time range	1mS~3600S	The actual effect refers to the rise/fall time of the specification, here is the range of setting items
	Maximum number of steps	100	

	Maximum number of files	20	
	Number of GROUP	-	No group function
	Time accuracy	$\leq 10\text{ms/Step}$	
METER	Sampling Rate	$1\text{kHz}\pm 1\%$	
	Storage depth	500pts	

* This information is subject to change without notice.