Parameter		Model:IT8512BG+	
Rated value	Voltage	0.1～60V	0.1～600V
	Current	0～3A	0～15A
	Power	0～300W	
	Resistance	0.5Ω～7500Ω	
	Minimum resistance	≒188mΩ	
	Minimum operating voltage	0.6V at 3A	3V at 15A
	Input leakage Current	0.08mA	0.8mA
Setup Resolution	Voltage	1mV	10mV
	Current	0.1mA	1mA
	Power	10mW	
	Resistance	16bit	
Read Back Resolution	Voltage	1 mV	10 mV
	Current	0.1mA	1mA
	Power	10mW	
Setup Accuracy	Voltage	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)
	Current	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)
	Power*3	0.1%+0.2%FS	
	Resistance*1	0.01%+0.08S *2	0.01%+0.0008S
Read Back Accuracy	Voltage	±(0.025%+0.025%FS)	
	Current	±(0.05%+0.05%FS)	
	Power	±(0.1%+0.2%FS)	
Setup Temperature Coefficient (%of Output/℃ +Offset)	Voltage	≤100ppm/℃ + 100ppm/℃*FS	
	Current	≤100ppm/℃ + 100ppm/℃*FS	
Read Back Temperature Coefficient (%of Output/℃ +Offset)	Voltage	≤100ppm/℃ + 100ppm/℃*FS	
	Current	≤100ppm/℃ + 100ppm/℃*FS	
Transient Response Time	Ascenting rate*4	0.0001～0.2A/uS	0.001～0.8A/uS

	Descenting rate*4	0.0001～0.2A/uS	0.001～0.8A/uS
	Transient Frequency	0.001～20KHz	
AC Input	**voltage range**	110V ±10% or 220V ±10%	
		No three phase	
	Frequency Range	50/60Hz	
	Maximum current	0.3A	
	Power factor	0.8	
	Harmonic THDI	None	
	Island Protection	None	
Setup Stability-30min （%of Output +Offset）	**Voltage**	≤0.05%+0.025%FS	
	Current	≤0.05%+0.05%FS	
Setup stability-8h （%of Output +Offset）	**Voltage**	≤0.05%+0.025%FS	
	Current	≤0.05%+0.05%FS	
Readback Stability-30min （%of Output +Offset）	**Voltage**	≤0.025%+0.025%FS	
	Current	≤0.05%+0.05%FS	
Readback stability-8h （%of Output +Offset）	**Voltage**	≤0.025%+0.025%FS	
	Current	≤0.05%+0.05%FS	
Efficiency	None		
Remote Sense Compensation Voltage	≤2V		
Command Response Time	The fastest 5mS		
Storage Temperature	-20℃～70℃		
Protective Function	OPP ≒320W, OCP ≒3.3A 16A, OVP ≒630V, OTP ≒85℃		
Standard Interface	Standard: USB (support VCP, TMC),LAN		
Isolation (output to ground)	500V/DC/1mA		

Isolation (input to ground)	1.5KV/AC/5mA
Number of parallel machines	**Does not support paralleling (supports 16 groups of multi-channels)**
Protection level	**IP20**
Safety rules	**None**
Cooling method	**Air-cooled**
Fuse specifications	**0.5A**
Working Temperature	**0～40℃**
Dimension (mm)	**214.5mm*88.2mm*354.6mm**
Weight(net)	**3.4 kg**

*1   The voltage/current input is no less than 10% FS

*2   The scope of read-back resistance is: (1/(1/R+(1/R)*0.01%+0.08),1/(1/R-(1/R)*0.01%-0.08))

*3   The voltage/current input is no less than 10% FS

*4   Ascending/descending slope: 10%-90% current ascending slope from 0 to maximum current.

*5   Minimum rise time: 10%-90% current rise time