

Model		IT8512A+	
Rated value (0~40 °C)	Input voltage	0~150V	
	Input current	0~3A	0~30A
	Input power	300W	
	Minimum operation value	0.14V at 3A	1.4V at 30A
CV mode	Range	0.1~18V	0.1~150V
	Resolution	1mV	10mV
	Accuracy	$\pm(0.05\%+0.02\%FS)$	$\pm(0.05\%+0.025\%FS)$
CC mode	Range	0~3A	0~30A
	Resolution	0.1mA	1mA
	Accuracy	$\pm(0.05\%+0.05\%FS)$	$\pm(0.05\%+0.05\%FS)$
CR mode *1	Range	0.05Ω~10Ω	10Ω~7.5KΩ
	Resolution	16bit	
	Accuracy	0.01%+0.08S *2	0.01%+0.0008S
CP mode *3	Range	300W	
	Resolution	10mW	
	Accuracy	$\pm(0.1\%+0.1\%FS)$	
Dynamic mode(CC mode)			
T1&T2		20uS~3600S /Res:1 uS	
Accuracy		2uS±100ppm	
Rising/Falling slope *4		0.0001~0.2A/uS	0.001~1.5A/uS
Minimum rise time *5		≒10uS	≒10uS
Measuring range			
Readback voltage	Range	0~18V	0~150V
	Resolution	0.1 mV	1 mV
	Accuracy	$\pm(0.025\%+0.025\%FS)$	$\pm(0.025\%+0.025\%FS)$
Readback current	Range	0~3A	0~30A
	Resolution	0.1mA	1mA
	Accuracy	$\pm(0.05\%+0.05\%FS)$	
Readback power	Range	300W	
	Resolution	10mW	
	Accuracy	$\pm(0.1\%+0.1\%FS)$	
Protection range			
OPP Protection	≒320W		
OCP Protection	≒3.3A	≒33A	
OVP Protection	≒160V		

OTP Protection	≈85°C		
Specification			
Short	Current(CC)	≈3.3/3A	≈33/30A
	Voltage(CV)	0V	0V
	Resistance(CR)	≈40mΩ	≈40mΩ
Input Impedance	150KΩ		
Dimension	214.5mm*88.2mm*354.6mm		

- *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**