

Chapter 6 Specifications

Parameter		IT8511	IT8512	IT8512B	IT8512C
Input rating (0 ~ 40 °C)	Voltage	0 to 120V	0 to 120V	0 to 500V	0-120V
	Current	1mA to 30A	1mA to 30A	1mA to 15A	1mA to 60A
	Power	150 W	300 W	300 W	300 W
Load Regulation	Range	Accuracy	Resolution	Resolution	Resolution
	0-18V	$\pm(0.05\%+0.02\%FS)$	1mV	1mV	1mV
	0-120V / 500V	$\pm(0.05\%+0.025\%FS)$	10mV	10mV	10mV
	0-3A/6A	$\pm(0.1\%+0.1\%FS)$	0.1mA	0.1mA	0.2mA
CV Mode Regulation	0-30A/15A/60A	$\pm(0.1\%+0.1\%FS)$	1mA	1mA	2mA
	0.1-18V	$\pm(0.05\%+0.02\%FS)$	1mV	1mV	1mV
CC Mode Regulation	0.1-120V/500V	$\pm(0.05\%+0.025\%FS)$	10mV	10mV	10mV
	0-3A/6A	$\pm(0.05\%+0.1\%FS)$	0.1mA	0.1mA	0.1mA
CR Mode Regulation Input current \geq FS 10%	0-30A /15A/60A	$\pm(0.1\%+0.1\%FS)$	1mA	1mA	1mA
	0.1-10 Ω	$\pm(1\%+0.3\%FS)$	0.001 Ω	0.001 Ω	0.001 Ω
Input Voltage \geq FS 10%	10-99 Ω	$\pm(1\%+0.3\%FS)$	0.01 Ω	0.01 Ω	0.01 Ω
	100-999 Ω	$\pm(1\%+0.3\%FS)$	0.1 Ω	0.1 Ω	0.1 Ω
	1K-4K Ω	$\pm(1\%+0.8\%FS)$	1 Ω	1 Ω	1 Ω
CW Mode Regulation Input current \geq FS 10%	0-100W	$\pm(1\%+0.1\%FS)$	1mW	1mW	1mW
	Input Voltage \geq FS 10%	100-3	$\pm(1\%+0.1\%FS)$	10mW	10mW
Current Measurement	0-3A/6A	$\pm(0.1\% + 0.1\%FS)$	0.1mA	0.1mA	0.2mA
	0-30A /15A/60A	$\pm(0.2\%+0.15\%FS)$	1mA	1mA	2mA
Voltage Measurement	0-18V	$\pm(0.02\% + 0.02\%FS)$	1mV	1mV	1mV
	0-120V/500V	$\pm(0.02\%+0.025\%FS)$	10mV	10mV	10mV
Power Measurement Input current \geq FS 10%	0-100W	$\pm(1\%+0.1\%FS)$	1mW	1mW	1mW
	Input Voltage \geq FS 10%	100-300W	$\pm(1\%+0.1\%FS)$	10mW	10mW
Battery testing function	Input=0.1-120V Resolution =10mA		Max measurement capacity= 999AH Timer range=1~60000sec		
Transition Mode	Range of Frequency 0.1Hz-1kHz Frequency error rate<0.5%				