SIEMENS

Simcenter™ Micred™ Power Booster 10A 150V Technical Specifications

Description			
This Power Booster is an add-on to the T3STER SI hardware, which can extend the heating current output capability to up to 10A at up to 150V. This Power Booster is primarily designed for the measurement of single or serially connected diode-like two-pole components.			
Module			
Form factor		4 x 19” 1U modules, assembled in a 19” 4U desktop frame	
Number of required mains inputs		2	
Heating Current Supply mains requirements		AC 100-240V 50/60Hz, 21A/11A max (100/200 VAC)	
Current Generator Module (CG01300) mains requirements		AC 100-240V 50/60Hz, 2A max	
Physical Characteristics	Dimensions (H x W x D)	210mm x 515mm x 610mm	
	Weight	33kg	
Environmental Restrictions	Operating temperature range	0..50°C	
	Operating relative humidity	30..50% (noncondensing)	
	Storage temperature range	-20..70°C	
Heating Current Source			
Output voltage range		0..150V	
Output current range		20mA..10A	
Output current accuracy		0.1% I_{set} + 10mA	
Active load voltage range		0..150V	
Active load voltage accuracy		0.3% Vset + 0.75V	
Measurement Current Source			
Output voltage range		-15..+100V	-15..+150V
Output current range		±100mA	±25mA
Output current resolution		60µA	15µA
Output current accuracy		0.015% I_{set} + 250µA	
Current readback accuracy		0.35% I_{read} + 0.5mA	
Compliance voltage range		+15..+150V	
Compliance voltage accuracy		<1.5V	
Signal Divider			
Number of divider circuitry		4	
Division value		1:32, 1:1 (direct connection between input and output)	
Input characteristics when connected to an MS401 measurement channel (1:32 division state)			
Input impedance		3MΩ	
Input voltage range		±300V	

Nominal full-scale voltage range [V]	32	64	128	320
Nominal resolution [µV]	128	256	512	1280
Gain error	0.21%			
Offset error (mV)	166	166	166	214