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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

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4 Technical Parameters

4.1 Technical Parameters

Technical specifications for S7000UG series medium and high voltage models:

Model		S7000UG-7K5 -0750-0060	S7000UG-15K- 0750-0120	S7000UG-30K -0750-0180	S7000UG-15K- 1500-0060	S7000UG-21K -2000-0060	S7000UG-30K- 2000-0060
Power Supply							
Rated	Voltage	750V	750V	750V	1500V	2000V	2000V
	Current	60A	120A	180A	60A	60A	60A
	Power	7.5kW	15kW	30kW	15kW	21kW	30kW
Read-back Resolution	Voltage	0.01V					
	Current	0.01A					
	Power	1W					
Accuracy	Voltage	$\leq 0.05\% \text{F.S.}$					
	Current	$\leq 0.1\% \text{F.S.}$					
Line Regulation	Voltage	$\leq 0.02\% \text{F.S.}$					
	Current	$\leq 0.02\% \text{F.S.}$					
Load Regulation	Voltage	$\leq 0.05\% \text{F.S.}$					
	Current	$\leq 0.05\% \text{F.S.}$					
Ripple	Voltage Vpp (20MHz)	< 1000mV	< 3000mV	< 3000mV	< 3000mV	< 3000mV	< 3000mV
	Voltage (rms)	< 200mV	< 300mV	< 300mV	< 400mV	< 400mV	< 400mV
	Current (rms)	< 60mA	< 100mA	< 100mA	< 60mA	< 60mA	< 60mA
Slew Rate /Slope	Voltage (no load)	0.001V/ms ~ 80V/ms	0.001V/ms ~ 200V/ms	0.001V/ms ~ 200V/ms	0.001V/ms ~ 200V/ms	0.001V/ms ~ 200V/ms	0.001V/ms ~ 200V/ms
	Voltage (full load)	0.001V/ms ~ 30V/ms			0.001V/ms ~ 90V/ms		
	Current	0.001 ~ 20A/ms	0.001 ~ 60A/ms	0.001 ~ 60A/ms	0.001 ~ 20A/ms	0.001 ~ 20A/ms	0.001 ~ 20A/ms
Dynamic Response Time		< 1ms					
Overshoot/Drop*1		10%	15%	15%	15%	10%	15%
AC Input	Voltage	342 ~ 528Vac					
	Frequency	47Hz ~ 63Hz					
	Max. current	13.5A	27A	53.8A	27A	37.8A	53.8A
	Max. apparent power	8kVA	16kVA	32kVA	16kVA	22.4kVA	32kVA
Load							
Rated	Input Voltage	750V	750V	750V	1500V	2000V	2000V
	Input Current	60A	120A	180A	60A	60A	60A
	Input Power	7.5kW	15kW	30kW	15kW	21kW	30kW

Model		S7000UG-7K5 -0750-0060	S7000UG-15K- 0750-0120	S7000UG-30K -0750-0180	S7000UG-15K- 1500-0060	S7000UG-21K -2000-0060	S7000UG-30K- 2000-0060
	Input Resistance	7500Ω	7500Ω	7500Ω	7500Ω	7500Ω	7500Ω
	Min. operating voltage at max. current	6V@60A	6V@120A	6V@180A	6V@60A	10V@60A	10V@60A
Read-back Resolution	voltage	0.01V					
	Current	0.01A					
	Power	1W					
Setting Resolution	Resistance	0.1Ω					
Accuracy	Voltage	≤0.05%F.S.					
	Current	≤0.1% F.S.					
	Power	≤0.3% F.S.					
	Resistance	≤1%Rmax (0 ~ 10%Rmax); ≤5%Rmax (10% ~ Rmax)					
General Parameters							
Efficiency		≈95%					
Power Factor		> 0.99					
Protection		OVP, OCP, OPP, OTP, anti-islanding, Sense reverse polarity protection					
Communication		RS485/LAN/CAN/USB					
IP Rating		IP20					
Storage temperature		-20℃ ~ +70℃					
Ambient Temperature		0 ~ 40℃					
Humidity		0 ~ 90%RH, 25℃ non-condensing					
Altitude		2000m					
Dimensions (mm)		736(D)*445(W)*132.5(H)					
Weight (net weight)		34kg	39kg	46kg	39kg	46kg	46kg

*1: Rated voltage fluctuation value at sudden change of 0-50% resistive load (at maximum voltage slew rate).

The above specifications are subject to updates without further notice.