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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

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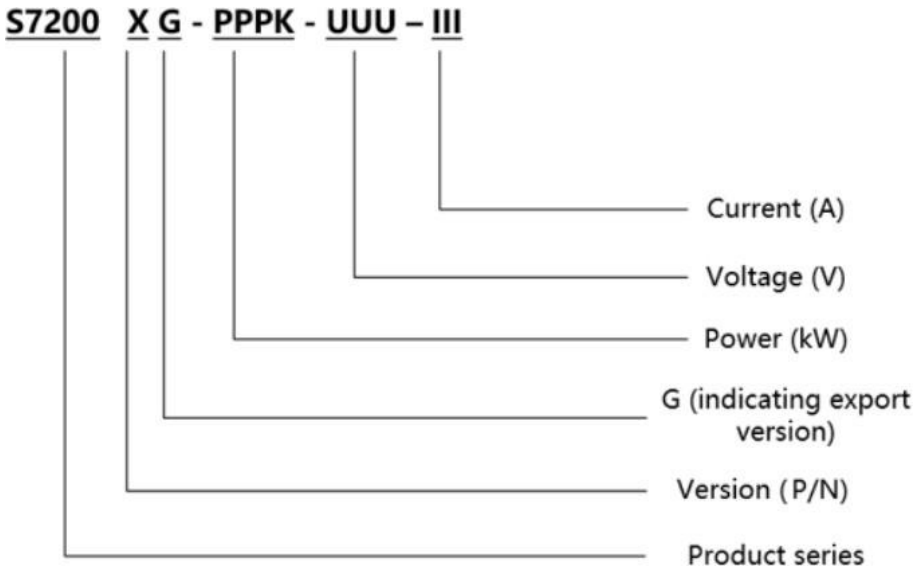
3 Product Specification

3.1 Product Model Description



e.g.: S7200NG-30K-2400-80

3.2 Technical Parameters

Model	Rated power [kW]	Rated voltage [V]	Rated current [A]
S7200NG-6K-50-600	6	50	600
S7200NG-6K-120-200	6	120	200
S7200NG-6K-120-600	6	120	600
S7200NG-12K-120-400	12	120	400
S7200NG-18K-120-600	18	120	600
S7200NG-20K-800-200	20	800	200
S7200NG-30K-800-240	30	800	240
S7200NG-15K-1200-100	15	1200	100
S7200NG-20K-1200-100	20	1200	100
S7200NG-30K-1200-100	30	1200	100
S7200NG-30K-2400-80	30	2400	80

50V series

Model		S7200NG-6K-50-600
Power supply parameters		
Output range	Output voltage	50V
	Output current	600A
	Output power	6kW
Read-back resolution	Voltage	0.001V
	Current	0.001A
	Power	0.1W
Accuracy	Voltage	≤0.02%+0.02%F.S.
	Current	≤0.05%+0.05% F.S.
Line regulation	Voltage	≤0.02%F.S.
	Current	≤0.02%F.S.
Load regulation	Voltage	≤0.05%F.S.
	Current	≤0.05%F.S.
Ripple	Voltage Vpp (20MHz)	<100mV
	Voltage (rms)	<20mV
	Current(rms)	<200mA
Slope/ Slew rate	Voltage (no load)	0.001V/ms~10V/ms
	Voltage (full load)	0.001V/ms~5V/ms
	Current	0.001~450A/ms
Dynamic response time		<500μs
AC input	Voltage	342~528Vac
	Frequency	47Hz~63Hz
	Max. current	10.3A
	Max. apparent power	6.8kVA
Load parameters		
Rated values	Input voltage	50V
	Input current	600A
	Input power	6kW
	Input resistance	7500Ω
	Min .operating voltage at max. current	1V@600A
Read-back resolution	Voltage	0.001V
	Current	0.001A
	Power	0.1W
	Resistance	0.001Ω
Accuracy	Voltage	≤0.02%+0.02%F.S.
	Current	≤0.05%+0.05% F.S.
	Power	≤0.3% F.S.
	Resistance	≤1%Rmax (0~10%Rmax); ≤5%Rmax (10%~Rmax)
General parameters		
Efficiency		88%
Power factor		>0.99
Protections		OVP, OCP, OPP, OTP, islanding protection, Sense reverse polarity protection
Communication interface		RS232/LAN/CAN2.0B (Only supports CANopen protocol)/USB/Analog IO/Digital IO
PD Rating*1		PD2
IP rating		IP20
Storage temperature		-20℃~+70℃
Operating temperature		0~40℃
Humidity		0~90%RH, 25℃ non-condensing
Altitude		2000m
Dimensions (mm)		699(D)*442(W)*133(H)
Weight (net weight)		37kg

Notes:*1 This product is suitable for Pollution Degree PD2. If the equipment is not used in accordance with the manufacturer's specifications, functions such as insulation protection may be impaired.
2.The above specifications are subject to future updates without further notice.
3.The 50V&120V S7200 series has different dimensions compared to S7200 units of other voltage classes.

120V series

Model		S7200NG-6K-120-200	S7200NG-6K-120-600	S7200NG-12K-120-400	S7200NG-18K-120-600
Power supply parameters					
Output range	Output voltage	120V			
	Output current	200A	600A	400A	600A
	Output power	6kW	6kW	12kW	18kW
Read-back resolution	Voltage	0.001V			
	Current	0.001A			
	Power	0.1W			
Accuracy	Voltage	≤0.02%F.S.			
	Current	≤0.05%+0.05% F.S.			
Line regulation	Voltage	≤0.02%F.S.			
	Current	≤0.02%F.S.			
Load regulation	Voltage	≤0.05%F.S.			
	Current	≤0.05%F.S.			
Ripple	Voltage Vpp (20MHz)	<100mV			
	Voltage (rms)	<20mV			
	Current(rms)	<200mA			
Slope/ Slew rate	Voltage (no load)	0.001V/ms~10V/ms			
	Voltage (full load)	0.001V/ms~5V/ms			
	Current	0.001~450A/ms			
Dynamic response time		<500μs			
AC input	Voltage	342~528Vac			
	Frequency	47Hz~63Hz			
	Max. current	10.3A	10.3A	20.6A	30.9A
	Max. apparent power	6.8kVA	6.8kVA	13.6kVA	20.4kVA
Load parameters					
Rated values	Input voltage	120V			
	Input current	200A	600A	400A	600A
	Input power	6kW	6kW	12kW	18kW
	Input resistance	7500Ω			
	Min .operating voltage at max. current	1V@200A	1V@600A	1V@400A	1V@600A
Read-back resolution	Voltage	0.001V			
	Current	0.001A			
	Power	0.1W			
	Resistance	0.001Ω			
Accuracy	Voltage	≤0.02%F.S.			
	Current	≤0.05%+0.05% F.S.			
	Power	≤0.3% F.S.			
	Resistance	≤1%Rmax (0~10%Rmax); ≤5%Rmax (10%~Rmax)			
General parameters					
Efficiency		≈92%			
Power factor		>0.99			
Protections		OVP, OCP, OPP, OTP, islanding protection, Sense reverse polarity protection			
Communication interface		RS232/LAN/CAN2.0B (Only supports CANopen protocol)/USB/Analog IO/Digital IO			
PD Rating*1		PD2			
IP rating		IP20			
Storage temperature		-20℃~+70℃			
Operating temperature		0~40℃			
Humidity		0~90%RH, 25℃ non-condensing			
Altitude		2000m			
Dimensions (mm)		699(D)*442(W)*133(H)			
Weight (net weight)		33kg	37kg	35kg	37kg

Notes:*1 This product is suitable for Pollution Degree PD2. If the equipment is not used in accordance with the manufacturer's specifications, functions such as insulation protection may be impaired
2.The above specifications are subject to future updates without further notice.
3.The 50V&120V S7200 series has different dimensions compared to S7200 units of other voltage classes.

800V series

Model		S7200NG-20K-800-200	S7200NG-30K-800-240
Power supply parameters			
Output range	Output voltage	800V	
	Output current	200A	240A
	Output power	20kW	30kW
Read-back resolution	Voltage	0.001V	
	Current	0.001A	
	Power	0.1W	
Accuracy	Voltage	≤0.02%F.S.	
	Current	≤0.05% F.S.	
Line regulation	Voltage	≤0.02%F.S.	
	Current	≤0.02%F.S.	
Load regulation	Voltage	≤0.05%F.S.	
	Current	≤0.05%F.S.	
Ripple	Voltage Vpp (20MHz)	<1000mV	<1200mV
	Voltage (rms)	<200mV	<200mV
	Current(rms)	<400mA	<150mA
Slope/ Slew rate	Voltage (no load)	0.001V/ms~500V/ms	
	Voltage (full load)	0.001~200V/ms	0.001V/ms~125V/ms
	Current	0.001~450A/ms	
Dynamic response time		<500μs	
AC input	Voltage	342~528Vac	
	Frequency	47Hz~63Hz	
	Max. current	37.8A	53.8A
	Max. apparent power	22.4kVA	32kVA
Load parameters			
Rated values	Input voltage	800V	
	Input current	200A	240A
	Input power	20kW	30kW
	Input resistance	7500Ω	
	Min. operating voltage at max. current	25V@200A	25V@240A
Read-back resolution	Voltage	0.001V	
	Current	0.001A	
	Power	0.1W	
	Resistance	0.001Ω	
Accuracy	Voltage	≤0.02%F.S.	
	Current	≤0.05% F.S.	
	Power	≤0.1% F.S.	
	Resistance	≤1%Rmax (0~10%Rmax); ≤5%Rmax (10%~Rmax)	
General parameters			
Withstand voltage		2000Vdc	
Efficiency		93%	95.50%
Power factor		>0.99	
Protections		OVP, OCP, OPP, OTP, islanding protection, Sense reverse polarity protection	
Communication interface		RS232/LAN/CAN2.0B (Only supports CANopen protocol)/USB/Analog IO/Digital IO	
PD Rating*1		PD2	
IP rating		IP20	
Storage temperature		-20℃~+70℃	
Operating temperature		0~40℃	
Humidity		0~90%RH, 25℃ non-condensing	
Altitude		2000m	
Dimensions (mm)		669(D)*445(W)*130(H)	
Weight (net weight)		37kg	40.5kg

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1200V series

Model		S7200NG-15K-1200-100	S7200NG-20K-1200-100	S7200NG-30K-1200-100
Power supply parameters				
Output range	Output voltage	1200V		
	Output current	100A	100A	100A
	Output power	15kW	20kW	30kW
Read-back resolution	Voltage	0.001V		
	Current	0.001A		
	Power	0.1W		
Accuracy	Voltage	≤0.02%F.S.		
	Current	≤0.05% F.S.		
Line regulation	Voltage	≤0.02%F.S.		
	Current	≤0.02%F.S.		
Load regulation	Voltage	≤0.05%F.S.		
	Current	≤0.05%F.S.		
Ripple	Voltage Vpp (20MHz)	<2000mV		
	Voltage (rms)	<400mV		
	Current(rms)	<200mA		
Slope/ Slew rate	Voltage (no load)	0.001V/ms~500V/ms		
	Voltage (full load)	0.001~140V/ms	0.001~140V/ms	0.001~180V/ms
	Current	0.001~150A/ms		
Dynamic response time		<500μs		
AC input	Voltage	342~528Vac		
	Frequency	47Hz~63Hz		
	Max. current	27A	37.8A	53.8A
	Max. apparent power	16kVA	22.4kVA	32kVA
Load parameters				
Rated values	Input voltage	1200V		
	Input current	100A		
	Input power	15kW	20kW	30kW
	Input resistance	7500Ω		
	Min. operating voltage at max. current	65V@100A		
Read-back resolution	Voltage	0.001V		
	Current	0.001A		
	Power	0.1W		
	Resistance	0.001Ω		
Accuracy	Voltage	≤0.02%F.S.		
	Current	≤0.05% F.S.		
	Power	≤0.1% F.S.		
	Resistance	≤1%Rmax (0~10%Rmax); ≤5%Rmax (10%~Rmax)		
General parameters				
Withstand voltage		3000Vdc		
Efficiency		92%	93%	94%
Power factor		>0.99		
Protections		OVP, OCP, OPP, OTP, islanding protection, Sense reverse polarity protection		
Communication interface		RS232/LAN/CAN2.0B (Only supports CANopen protocol)/USB/Analog IO/Digital IO		
PD Rating*1		PD2		
IP rating		IP20		
Storage temperature		-20℃~+70℃		
Operating temperature		0~40℃		
Humidity		0~90%RH, 25℃ non-condensing		
Altitude		2000m		
Dimensions (mm)		669(D)*445(W)*130(H)		

Model	S7200NG-15K-1200-100	S7200NG-20K-1200-100	S7200NG-30K-1200-100
Weight (net weight)	37kg	37kg	40.5kg

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2400V series

Model		S7200NG-30K-2400-80
Power supply parameters		
Output range	Output voltage	2400V
	Output current	80A
	Output power	30kW
Read-back resolution	Voltage	0.001V
	Current	0.001A
	Power	0.1W
Accuracy	Voltage	≤0.02%F.S.
	Current	≤0.05% F.S.
Line regulation	Voltage	≤0.02%F.S.
	Current	≤0.02%F.S.
Load regulation	Voltage	≤0.05%F.S.
	Current	≤0.05%F.S.
Ripple	Voltage Vpp (20MHz)	<2400mV
	Voltage (rms)	<400mV
	Current(rms)	<200mA
Slope/Slew rate	Voltage (no load)	0.001V/ms~500V/ms
	Voltage (full load)	0.001V/ms~180V/ms
	Current	0.001~150A/ms
Dynamic response time		<500μs
AC input	Voltage	342~528Vac
	Frequency	47Hz~63Hz
	Max. current	53.8A
	Max. apparent power	32kVA
Load parameters		
Rated values	Input voltage	2400V
	Input current	80A
	Input power	30kW
	Input resistance	7500Ω
	Min. operating voltage at max. current	65V@80A
Read-back resolution	Voltage	0.001V
	Current	0.001A
	Power	0.1W
	Resistance	0.001Ω
Accuracy	Voltage	≤0.02%F.S.
	Current	≤0.05% F.S.
	Power	≤0.1% F.S.
	Resistance	≤1%Rmax (0~10%Rmax); ≤5%Rmax (10%~Rmax)
General parameters		
Withstand voltage		3000Vdc
Efficiency		95.50%
Power factor		>0.99
Protections		OVP, OCP, OPP, OTP, islanding protection, Sense reverse polarity protection
Communication interface		RS232/LAN/CAN2.0B (Only supports CANopen protocol)/USB/Analog IO/Digital IO
PD Rating*1		PD2
IP rating		IP20
Storage temperature		-20℃~+70℃
Operating temperature		0~40℃
Humidity		0~90%RH, 25℃ non-condensing
Altitude		2000m
Dimensions (mm)		669(D)*445(W)*130(H)
Weight (net weight)		40.5kg

Notes:*1 This product is suitable for Pollution Degree PD2. If the equipment is not used in accordance with the manufacturer's specifications, functions such as insulation protection may be impaired

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3.3 Optional Configuration

Optional function	
GPIB communication interface	GPIB communication