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## High Power DC Power Supply System

» Product specification sheet



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# High Power DC Power Supply System

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## Selection List :

<b>Model</b>	<b>Size</b>	<b>Voltage</b>	<b>Current</b>	<b>Power</b>	<b>Corresponding page</b>
SYS80VDC54000W	15U	80V	1800A	54KW	P01
SYS80VDC90000W	26U	80V	3000A	90KW	P01
SYS165VDC36000W	15U	165V	600A	36KW	P02
SYS165VDC72000W	26U	165V	1200A	72KW	P02
SYS165VDC96000W	32U	165V	1600A	96KW	P02
SYS165VDC120000W	38U	165V	2000A	120KW	P02
SYS250VDC54000W	15U	250V	600A	54KW	P03
SYS250VDC108000W	26U	250V	1200A	108KW	P03
SYS250VDC144000W	32U	250V	1600A	144KW	P03
SYS250VDC180000W	38U	250V	2000A	180KW	P03

# High Power DC Power Supply System

MODEL		SYS80VDC54000W	SYS80VDC90000W
<b>Input</b>			
Voltage <sup>[1]</sup>		3P208 187~253VAC	
		3P400 340~460VAC	
		ΔConnect	
Frequency		45~65Hz	
Phase		3 Phase, 3Wire+Groud, ΔConnect	
Power Factor		>0.99(Rate Input Voltage, Full Load)	
Max.Current <sup>[1]</sup>		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-400A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A
Input Power Max		60KW	100KW
Efficiency <sup>[1]</sup>		90.5%	
		92.5%	
<b>Output</b>			
Output Voltage		0~80V	
Output Current <sup>[2]</sup>		0~1800A	0~3000A
Output Power		0~54KW	0~90KW
Ro		Ro_Nomal=U_Nomal/I_Nomal*(0~30)	
Load Regulation <sup>[3]</sup>	Voltage	(40mV*N)120mV	(40mV*N)240mV
	Current	<0.15%Imax(2700mA)	<0.15%Imax(4500mA)
Line Regulation	Voltage	<0.02%Umax(16mV)	
	Current	<0.05%Imax(900mA)	<0.05%Imax(1500mA)
Voltage Setting	Range	0~84V(0~105%)	
	Resolution	0.001V	
	Accuracy	<0.2%Umax(160mV)	
Current Setting	Range	0~1890A(0~105%)	0~3150A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)	
	Accuracy	<0.2%Imax(3600mA)	<0.2%Imax(6000mA)
Power Setting	Range	0~56.7KW(0~105%)	0~94.5KW(0~105%)
	Resolution	0.1W(F.S. ≤ 6KW), 1W(F.S. > 6KW)	
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W
Ro Setting	Range	Ro_Nomal=U_Nomal/I_Nomal*(0~30)	
	Resolution	0.0001Ω	
	Accuracy	R<2%Rmax,I<0.3%Imax	
Ripple <sup>[4]</sup>	Voltage	<480mVpp, <37.5mVrms	<960mVpp, <75mVrms
	Current	NA	
<b>Measurement</b>			
Voltage	Range	0~84V(0~105%)	
	Resolution	0.001V	
	Accuracy	<0.2%Umax(16mV)	
Current	Range	0~1890A(0~105%)	0~3780A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)	
	Accuracy	<0.2%Imax(3600mA)	<0.2%Imax(6000mA)
Ro	Range	Ro_Nomal=U_Nomal/I_Nomal*(0~30)	
	Resolution	0.0001Ω	
	Accuracy	R<2%Rmax,I<0.3%Imax	

# High Power DC Power Supply System

MODEL		SYS80VDC54000W	SYS80VDC90000W
Power	Range	0~56.7KW(0~105%)	0~94.5KW(0~105%)
	Resolution	0.1W(F.S. ≤ 6KW), 1W(F.S. > 6KW)	
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W
<b>Sink Function</b>			
Input Voltage	0~80V		
Input Current	0~891A	0~1485A	
Input Power	0~3000W	0~5000W	
Min.Operating Voltage	1V		
CC Resolution	10mA		
CC Accuracy	<0.2%Imax(1782mA)	<0.2%Imax(3566mA)	
CV Resolution	< 4mV		
CV Accuracy	<0.1%Umax(80mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%Pmax(15000mW)	<0.5%Pmax(25000mW)	
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20~50ms		
<b>Extra Function</b>			
Output polarity	Positive or negative grounding possible		
Batt. Test Mode	Support		
Graphic Display	4.3" LCD Display		
Operation Key Feature	Soft key, Numeric key, Rotary Knob		
Rack mount Handles	YES		
FAN	Temperature Control		
Protection Circuits	OCP, OVP, OPP, OTP, FAN		
Interface	USB, RS232, RS485(Standard), GPIB & LAN(Optional), CAN(Optional)		
<b>Environmental</b>			
Operating Temperature <sup>[1]</sup>	0°C~40°C		
Storage Temperature	-20°C~70°C		
Altitude	<2000m		
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C		
Noise	53dB Min , 75dB Max	55dB Min , 78dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current		
<b>Mechanical</b>			
Dimensions(W x H x D)	560.0x841.0x900.0 mm	560.0x1357.0x900.0 mm	
Package Dimensions(W x H x D)	680.0x1072.0x1020.0 mm	830.0x1588.0x1020.0 mm	
Unit Net Weight	225kg	371kg	
Accessories Weight	0.4kg		
Shipping Weight	292kg	492kg	
<b>Regulatory Compliance</b>			
CE Mark	Installation Overvltage Category II; Class II equipment; indoor use only.		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 10% to 90% of rated output.

[4] RMS Value 300kHz; PP Value 20MHz.

All specifications are subject to change without notice.

# High Power DC Power Supply System

MODEL	SYS165VDC36000W		SYS165VDC72000W		SYS165VDC96000W		SYS165VDC120000W		
<b>Input</b>									
Voltage <sup>[1]</sup>	3P208 187~253VAC								
	3P400 340~460VAC								
	ΔConnect								
Frequency	45~65Hz								
Phase	3 Phase, 3Wire+Groud, ΔConnect								
Power Factor	>0.99(Rate Input Voltage, Full Load)								
Max.Current <sup>[1]</sup>	3P208 L1,L2,L3-123A		3P208 L1,L2,L3-247A		3P208 L1,L2,L3-330A		3P208 L1,L2,L3-414A		
	3P400 L1,L2,L3-67A		3P400 L1,L2,L3-132A		3P400 L1,L2,L3-175A		3P400 L1,L2,L3-221A		
Input Power Max	40KW		80KW		110KW		135KW		
Efficiency <sup>[1]</sup>	90.5%								
	92.5%								
<b>Output</b>									
Output Voltage	0~165V								
Output Current <sup>[2]</sup>	0~600A		0~1200A		0~1600A		0~2000A		
Output Power	0~36KW		0~72KW		0~96KW		0~120KW		
Ro	Ro_Nomal=U_Nomal/I_Nomal*(0~30)								
Load Regulation <sup>[3]</sup>	Voltage	(82.5mV*N)247.5mV		(82.5mV*N)495mV		(82.5mV*N)660mV		(82.5mV*N)825mV	
	Current	<0.15%Imax(900mA)		<0.15%Imax(1800mA)		<0.15%Imax(2400mA)		<0.15%Imax(3000mA)	
Line Regulation	Voltage	<0.02%Umax(33mV)							
	Current	<0.05%Imax(300mA)		<0.05%Imax(600mA)		<0.05%Imax(800mA)		<0.05%Imax(1000mA)	
Voltage Setting	Range	0~173.25V(0~105%)							
	Resolution	0.001V							
	Accuracy	<0.2%Umax(330mV)							
Current Setting	Range	0~630A(0~105%)		0~1260A(0~105%)		0~1680A(0~105%)		0~2100A(0~105%)	
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)							
	Accuracy	<0.2%Imax(1200mA)		<0.2%Imax(2400mA)		<0.2%Imax(3200mA)		<0.2%Imax(4000mA)	
Power Setting	Range	0~37.8KW(0~105%)		0~75.6KW(0~105%)		0~100.8KW(0~105%)		0~126KW(0~105%)	
	Resolution	0.1W(F.S. ≤ 6KW), 1W(F.S. > 6KW)							
	Accuracy	<0.5%F.S.+ 270W		<0.5%F.S.+ 540W		<0.5%F.S.+ 720W		<0.5%F.S.+ 900W	
Ro Setting	Range	Ro_Nomal=U_Nomal/I_Nomal*(0~30)							
	Resolution	0.0001Ω							
	Accuracy	R<2%Rmax,I<0.3%Imax							
Ripple <sup>[4]</sup>	Voltage	<870mVpp, <75mVrms		<1470mVpp, <150mVrms		<2320mVpp, <200mVrms		<2900mVpp, <250mVrms	
	Current	NA							
<b>Measurement</b>									
Voltage	Range	0~173.25V(0~105%)							
	Resolution	0.001V							
	Accuracy	<0.2%Umax(330mV)							
Current	Range	0~630A(0~105%)		0~1260A(0~105%)		0~1680A(0~105%)		0~2100A(0~105%)	
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)							
	Accuracy	<0.2%Imax(1200mA)		<0.2%Imax(2400mA)		<0.2%Imax(3200mA)		<0.2%Imax(4000mA)	
Ro	Range	Ro_Nomal=U_Nomal/I_Nomal*(0~30)							
	Resolution	0.0001Ω							
	Accuracy	R<2%Rmax,I<0.3%Imax							

# High Power DC Power Supply System

MODEL		SYS165VDC36000W	SYS165VDC72000W	SYS165VDC96000W	SYS165VDC120000W
Power	Range	0~37.8KW(0~105%)	0~75.6KW(0~105%)	0~100.8KW(0~105%)	0~126KW(0~105%)
	Resolution	0.1W(F.S. ≤ 6KW), 1W(F.S. > 6KW)			
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
<b>Extra Function</b>					
Output polarity	Positive or negative grounding possible				
Batt. Test Mode	Support				
Graphic Display	4.3" LCD Display				
Operation Key Feature	Soft key, Numeric key, Rotary Knob				
Rack mount Handles	YES				
FAN	Temperature Control				
Protection Circuits	OCP, OVP, OPP, OTP, FAN				
Interface	USB, RS232, RS485(Standard), GPIB & LAN(Optional), CAN(Optional)				
<b>Environmental</b>					
Operating Temperature <sup>[2]</sup>	0°C~40°C				
Storage Temperature	-20°C~70°C				
Altitude	<2000m				
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C				
Noise	53dB Min, 75dB Max	56dB Min, 78dB Max	58dB Min, 82dB Max	59dB Min, 85dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current				
<b>Mechanical</b>					
Dimensions(W x H x D)	560.0x841.0x900.0 mm	560.0x1357.0x900.0 mm	560.0x1623.0x900.0 mm	560.0x1890.0x900.0 mm	
Package Dimensions(W x H x D)	680.0x1072.0x1020.0 mm	830.0x1588.0x1020.0 mm	830.0x1854.0x1020.0 mm	830.0x2121.0x1020.0 mm	
Unit Net Weight	192kg	350kg	447kg	543kg	
Accessories Weight	0.4kg				
Shipping Weight	259kg	471kg	588kg	704kg	
<b>Regulatory Compliance</b>					
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.				

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 10% to 90% of rated output.

[4] RMS Value 300kHz; PP Value 20MHz.

All specifications are subject to change without notice.

# High Power DC Power Supply System

MODEL	SYS250VDC54000W		SYS250VDC108000W		SYS250VDC144000W		SYS250VDC180000W		
<b>Input</b>									
Voltage <sup>[1]</sup>	3P208 187~253VAC								
	3P400 340~460VAC								
	ΔConnect								
Frequency	45~65Hz								
Phase	3 Phase, 3Wire+Groud, ΔConnect								
Power Factor	>0.99(Rate Input Voltage, Full Load)								
Max.Current <sup>[1]</sup>	3P208 L1,L2,L3-180A		3P208 L1,L2,L3-400A		3P208 L1,L2,L3-480A		3P208 L1,L2,L3-600A		
	3P400 L1,L2,L3-90A		3P400 L1,L2,L3-180A		3P400 L1,L2,L3-240A		3P400 L1,L2,L3-300A		
Input Power Max	60KW		120KW		160KW		200KW		
Efficiency <sup>[1]</sup>	90.5%								
	92.5%								
<b>Output</b>									
Output Voltage	0~250V								
Output Current <sup>[2]</sup>	0~600A		0~1200A		0~1600A		0~2000A		
Output Power	0~54KW		0~108KW		0~144KW		0~180KW		
Ro	Ro_Nomal=U_Nomal/I_Nomal*(0~30)								
Load Regulation <sup>[3]</sup>	Voltage	(125mV*N)375mV		(125mV*N)750mV		(125mV*N)1000mV		(125mV*N)1250mV	
	Current	<0.15%Imax(900mA)		<0.15%Imax(1800mA)		<0.15%Imax(2400mA)		<0.15%Imax(3000mA)	
Line Regulation	Voltage	<0.02%Umax(50mV)							
	Current	<0.05%Imax(300mA)		<0.05%Imax(600mA)		<0.05%Imax(800mA)		<0.05%Imax(1000mA)	
Voltage Setting	Range	0~262V(0~105%)							
	Resolution	0.001V							
	Accuracy	<0.2%Umax(500mV)							
Current Setting	Range	0~630A(0~105%)		0~1260A(0~105%)		0~1680A(0~105%)		0~2100A(0~105%)	
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)							
	Accuracy	<0.2%Imax(1200mA)		<0.2%Imax(2400mA)		<0.2%Imax(3200mA)		<0.2%Imax(4000mA)	
Power Setting	Range	0~56.7KW(0~105%)		0~113.4KW(0~105%)		0~151.2KW(0~105%)		0~189KW(0~105%)	
	Resolution	0.1W(F.S. ≤ 6KW), 1W(F.S. > 6KW)							
	Accuracy	<0.5%F.S.+ 270W		<0.5%F.S.+ 540W		<0.5%F.S.+ 720W		<0.5%F.S.+ 900W	
Ro Setting	Range	Ro_Nomal=U_Nomal/I_Nomal*(0~30)							
	Resolution	0.0001Ω							
	Accuracy	R<2%Rmax,I<0.3%Imax							
Ripple <sup>[4]</sup>	Voltage	<825mVpp, <75mVrms		<1650mVpp, <150mVrms		<2200mVpp, <200mVrms		<4250mVpp, <250mVrms	
	Current	NA							
<b>Measurement</b>									
Voltage	Range	0~262.5V(0~105%)							
	Resolution	0.001V							
	Accuracy	<0.2%Umax(500mV)							
Current	Range	0~630A(0~105%)		0~1260A(0~105%)		0~1680A(0~105%)		0~2100A(0~105%)	
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)							
	Accuracy	<0.2%Imax(1200mA)		<0.2%Imax(2400mA)		<0.2%Imax(3200mA)		<0.2%Imax(4000mA)	
Ro	Range	Ro_Nomal=U_Nomal/I_Nomal*(0~30)							
	Resolution	0.0001Ω							
	Accuracy	R<2%Rmax,I<0.3%Imax							

# High Power DC Power Supply System

MODEL		SYS250VDC54000W	SYS250VDC108000W	SYS250VDC144000W	SYS250VDC180000W
Power	Range	0~56.7KW(0~105%)	0~113.4KW(0~105%)	0~151.2KW(0~105%)	0~189KW(0~105%)
	Resolution	0.1W(F.S. ≤ 6KW), 1W(F.S. > 6KW)			
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
<b>Extra Function</b>					
Output polarity	Positive or negative grounding possible				
Batt. Test Mode	Support				
Graphic Display	4.3" LCD Display				
Operation Key Feature	Soft key, Numeric key, Rotary Knob				
Rack mount Handles	YES				
FAN	Temperature Control				
Protection Circuits	OCP, OVP, OPP, OTP, FAN				
Interface	USB, RS232, RS485(Standard), GPIB & LAN(Optional), CAN(Optional)				
<b>Environmental</b>					
Operating Temperature <sup>[2]</sup>	0°C~40°C				
Storage Temperature	-20°C~70°C				
Altitude	<2000m				
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C				
Noise	53dB Min, 75dB Max	56dB Min, 78dB Max	58dB Min, 82dB Max	59dB Min, 85dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current				
<b>Mechanical</b>					
Dimensions(W x H x D)	560.0x841.0x900.0 mm	560.0x1357.0x900.0 mm	560.0x1623.0x900.0 mm	560.0x1890.0x900.0 mm	
Package Dimensions(W x H x D)	680.0x1072.0x1020.0 mm	830.0x1588.0x1020.0 mm	830.0x1854.0x1020.0 mm	830.0x2121.0x1020.0 mm	
Unit Net Weight	225kg	416kg	535kg	653kg	
Accessories Weight	0.4kg				
Shipping Weight	292kg	537kg	676kg	814kg	
<b>Regulatory Compliance</b>					
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.				

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 10% to 90% of rated output.

[4] RMS Value 300kHz; PP Value 20MHz.

All specifications are subject to change without notice.



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