SPECIFICATIONS

Model			RBS03K3-100	RBS06K6-100	RBS09K9-100
Output rating					
Rated power			± 3300 W	± 6600 W	± 9900 W
Rated voltage (source)			0 V to 100 V	0 V to 100 V	0 V to 100 V
Operating voltage (sink)			5 V to 100 V	5 V to 100 V	5 V to 100 V
Rated current			±170 A	±340 A	±510 A
Output voltage					
Maximum settable voltage			100 V		
Setting accuracy			0.05 %+0.05 %FS		
Setting resolution			0.01 V		
Load regulation CV			0.05 %FS		
Line regulation CV			0.015 %FS		
Temperature coefficient CV			100 ppm		
Remote sensing (compensation voltage)			5 V		
Source only	Transient response(*1)		2 ms		
	Ripple noise	p-p(*2)	500 mV		
		rms(*3)	35 mV		
	Rise time(*4)	Full load	60 ms		
		No load	15 ms		
	Fall time(*5)	Full load	15 ms		
		No load	30 ms		
Output current					
Settable maximum source current			170 A	340 A	510 A
Settable maximum sink current			-170 A	-340 A	-510 A
Setting accuracy			0.4 %+0.4 %FS		
Setting resolution			0.01 A		
Load regulation CC			0.2 %FS		
Line regulation CC			0.05 %FS		
Ripple and noise(*6)		rms(*3)	0.1 %FS		
Temperature coefficient CC			200 ppm		
Output power					
Settable maximum source power			3300 W	6600 W	9900 W
Settable maximum sink power			-3300 W	-6600 W	-9900 W
Setting accuracy			0.5 %+0.5 %FS		
Setting resolution			1 W		
DC Output Resistor					
Resistance range			0 Ω to 100 Ω		
Setting accuracy(*7)			≤5 % Rmax(0 % to 10 % Rmax) ; ≤10 % Rmax(10 % to 100 % Rmax)		
Setting resolution			0.01 Ω		
Protective functions					
OVP		Range	0 %FS to 110 %FS		
		Accuracy	0.1 %FS		
OCP		Range	0 %FS to 110 %FS		
		Accuracy	0.2 %FS		
OTP			√	√	√
Vsense reverse protection			√	√	√
Input voltage protection (OVP, UVP)			√	√	√
Display accuracy					
Voltage		Accuracy	0.05 %+0.05 %FS		
		Resolution	0.01 V		
Current		Accuracy	0.4 %+0.4 %FS		
		Resolution	0.01 A		
Power		Accuracy	0.5 %+0.5 %FS		
		Resolution	0.001 kW		
Interfaces digital					
All-in-One(USB,RS232,RS485,CAN,LAN)(*8)			All-in-One / GPIB		
GPIB(*8)			All-in-One / GPIB		
200V three-phase three-wire input					
Nominal input rating			220 Vac to 230 Vac		
Input voltage range			198 Vac to 242 Vac		
Input frequency range			47 Hz to 63 Hz		
Output Power			3300 W	6600 W	9900 W
Input current (MAX)		at 198 Vac	18.1 A	36.2 A	54.3 A
Input power (MAX)			3.7 kVA	7.3 kVA	10.9 kVA
Power factor (TYP)			0.99		
Leakage current			5 mA		
Efficiency sink/source (up to)			93 %		
General Specifications					
Environmental conditions	Operating temperature		0 °C to 40 °C		
	Operating humidity		20 % to 90 % RH		
	Storage temperature		-10 °C to 70 °C		
	Storage humidity		20 % to 90 % RH		
	Altitude		1000 m		
Withstand voltage	AC input to case (PE)		DC 2300 V		
Insulation resistance	Between output and GND		DC 500 V		
Mechanical construction	Dimensions (W x H x D) mm		482 mm × 133.3 mm × 790 mm		
	Weight		24 kg	32 kg	40 kg
Parallel operation			√	√	√

(*1) When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

(*2) Measurement frequency bandwidth is 20 Hz to 20 MHz.

(*3) Measurement frequency bandwidth is 20 Hz to 2 MHz.

(*4) First set the 0V output, from 10 % to 90 % of the rated output voltage,with pure resistance.

(*5) Rated voltage output, then set to 0 V, from 90 % to 10 % of rated output voltage,with pure resistance.

(*6) The ripple is measured with the output voltage set between (20 to 100) % of the rated output voltage and at full output current. The ripple specification is 0.1 % FS in Source mode and 0.2 % FS in Sink and Load modes. For the 11.6 kW and 17.4 kW models, the ripple specification is 0.5 % FS. For the 2250 V, 9.9 kW model, the ripple specification is 0.15 % FS.

(*7) When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

(*8) Communication interface: one of two, factory-installed.

SPECIFICATIONS

Model			RBS03K3-500	RBS06K6-500	RBS09K9-500	RBS11K6-500	RBS17K4-500
Output rating							
Rated power			± 3300 W	± 6600 W	± 9900 W	± 11600 W	± 17400 W
Rated voltage (source)			0 V to 500 V				
Operating voltage (sink)			10 V to 500 V				
Rated current			±40 A	±80 A	±120 A	±160 A	±240 A
Output voltage							
Maximum settable voltage			500 V				
Setting accuracy			0.05 %+0.05 %FS				
Setting resolution			0.01 V				
Load regulation CV			0.03 %FS				
Line regulation CV			0.015%FS				
Temperature coefficient CV			100 ppm				
Remote sensing (compensation voltage)			25 V				
Source only	Transient response(*1)		2 ms				
	Ripple noise	p-p(*2)	600 mV				
		rms(*3)	95 mV				
	Rise time(*4)	Full load	30 ms				
		No load	15 ms				
	Fall time(*5)	Full load	15 ms				
		No load	30 ms				
Output current							
Settable maximum source current			40 A	80 A	120 A	160 A	240 A
Settable maximum sink current			-40 A	-80 A	-120 A	-160 A	-240 A
Setting accuracy			0.15 %+0.15 %FS				
Setting resolution			0.01 A				
Load regulation CC			0.1 %FS				
Line regulation CC			0.05 %FS				
Ripple and noise(*6)		rms(*3)	0.1 %FS			0.5 %FS	
Temperature coefficient CC			200 ppm				
Output power							
Settable maximum source power			3300 W	6600 W	9900 W	11600 W	17400 W
Settable maximum sink power			-3300 W	-6600 W	-9900 W	-11600 W	-17400 W
Setting accuracy			0.5 %+0.5 %FS				
Setting resolution			1 W				
DC Output Resistor							
Resistance range			0 Ω to 500 Ω				
Setting accuracy(*7)			≤5 % Rmax(0 % to 10 % Rmax) ; ≤10 % Rmax(10 % to 100 % Rmax)				
Setting resolution			0.01 Ω				
Protective functions							
OVP		Range	0 %FS to 110 %FS				
		Accuracy	0.1 %FS				
OCP		Range	0 %FS to 110 %FS				
		Accuracy	0.2 %FS				
OTP			√	√	√	√	√
Vsense reverse protection			√	√	√	√	√
Input voltage protection (OVP, UVP)			√	√	√	√	√
Display accuracy							
Voltage		Accuracy	0.05 %+0.05 %FS				
		Resolution	0.01 V				
Current		Accuracy	0.15 %+0.15 %FS				
		Resolution	0.01 A				
Power		Accuracy	0.5 %+0.5 %FS				
		Resolution	0.001 kW				
Interfaces digital							
All-in-One(USB,RS232,RS485,CAN,LAN)(*8)			All-in-One / GPIB				
GPIB(*8)			All-in-One / GPIB				
200V three-phase three-wire input							
Nominal input rating			220 Vac to 230 Vac				
Input voltage range			198 Vac to 242 Vac				
Input frequency range			47 Hz to 63 Hz				
Output Power			3300 W	6600 W	9900 W	11600 W	17400 W
Input current (MAX)		at 198 Vac	18.1A	36.2 A	54.3 A	63.6 A	95.5 A
Input power (MAX)			3.7 kVA	7.3 kVA	10.9 kVA	12.8 kVA	19.2 kVA
Power factor (TYP)			0.99				
Leakage current			5 mA				
Efficiency sink/source (up to)			93 %				
General Specifications							
Environmental conditions	Operating temperature		0 °C to 40 °C				
	Operating humidity		20 % to 90 % RH				
	Storage temperature		-10 °C to 70 °C				
	Storage humidity		20 % to 90 % RH				
	Altitude		1000 m				
Withstand voltage	AC input to case (PE)		DC 2300 V				
Insulation resistance	Between output and GND		DC 500 V				
Mechanical construction	Dimensions (W x H x D) mm		482 mm × 133.3 mm × 790 mm				
	Weight		24 kg	32 kg	40 kg	34 kg	43 kg
Parallel operation			√	√	√	√	√

(*1) When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

(*2) Measurement frequency bandwidth is 20 Hz to 20 MHz.

(*3) Measurement frequency bandwidth is 20 Hz to 2 MHz.

(*4) First set the 0V output, from 10 % to 90 % of the rated output voltage,with pure resistance.

(*5) Rated voltage output, then set to 0 V, from 90 % to 10 % of rated output voltage,with pure resistance.

(*6) The ripple is measured with the output voltage set between (20 to 100) % of the rated output voltage and at full output current. The ripple specification is 0.1 % FS in Source mode and 0.2 % FS in Sink and Load modes. For the 11.6 kW and 17.4 kW models, the ripple specification is 0.5 % FS. For the 2250 V, 9.9 kW model, the ripple specification is 0.15 % FS.

(*7) When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

(*8) Communication interface: one of two, factory-installed.

SPECIFICATIONS

Model			RBS03K3-750	RBS06K6-750	RBS09K9-750	RBS11K6-750	RBS17K4-750
Output rating							
Rated power			± 3300 W	± 6600 W	± 9900 W	± 11600 W	± 17400 W
Rated voltage (source)			0 V to 750 V				
Operating voltage (sink)			10 V to 750 V				
Rated current			±25 A	±50 A	±75 A	±120 A	±180 A
Output voltage							
Maximum settable voltage			750 V				
Setting accuracy			0.05 %+0.05 %FS				
Setting resolution			0.1 V				
Load regulation CV			0.03 %FS				
Line regulation CV			0.015 %FS				
Temperature coefficient CV			100 ppm				
Remote sensing (compensation voltage)			37.5 V				
Source only	Transient response(*1)		2 ms				
	Ripple noise	p-p(*2)	900 mV				
		rms(*3)	100 mV				
	Rise time(*4)	Full load	30 ms				
		No load	15 ms				
	Fall time(*5)	Full load	15 ms				
		No load	30 ms				
Output current							
Settable maximum source current			25 A	50 A	75 A	120 A	180 A
Settable maximum sink current			-25 A	-50 A	-75 A	-120 A	-180 A
Setting accuracy			0.15 %+0.15 %FS				
Setting resolution			0.01 A				
Load regulation CC			0.1 %FS				
Line regulation CC			0.05 %FS				
Ripple and noise(*6)		rms(*3)	0.1 %FS			0.5 %FS	
Temperature coefficient CC			200 ppm				
Output power							
Settable maximum source power			3300 W	6600 W	9900 W	11600 W	17400 W
Settable maximum sink power			-3300 W	-6600 W	-9900 W	-11600 W	-17400 W
Setting accuracy			0.5 %+0.5 %FS				
Setting resolution			1 W				
DC Output Resistor							
Resistance range			0 Ω to 750 Ω				
Setting accuracy(*7)			≤5 % Rmax(0 % to 10 % Rmax) ; ≤10 % Rmax(10 % to 100 % Rmax)				
Setting resolution			0.01 Ω				
Protective functions							
OVP		Range	0 %FS to 110 %FS				
		Accuracy	0.1 %FS				
OCP		Range	0 %FS to 110 %FS				
		Accuracy	0.2 %FS				
OTP			√	√	√	√	√
Vsense reverse protection			√	√	√	√	√
Input voltage protection (OVP, UVP)			√	√	√	√	√
Display accuracy							
Voltage		Accuracy	0.05 %+0.05 %FS				
		Resolution	0.1 V				
Current		Accuracy	0.15 %+0.15 %FS				
		Resolution	0.01 A				
Power		Accuracy	0.5 %+0.5 %FS				
		Resolution	0.001 kW				
Interfaces digital							
All-in-One(USB,RS232,RS485,CAN,LAN)(*8)			All-in-One / GPIB				
GPIB(*8)			All-in-One / GPIB				
200V three-phase three-wire input							
Nominal input rating			220 Vac to 230 Vac				
Input voltage range			198 Vac to 242 Vac				
Input frequency range			47 Hz to 63 Hz				
Output Power			3300 W	6600 W	9900 W	11600 W	17400 W
Input current (MAX)		at 198 Vac	18.1A	36.2 A	54.3 A	63.6 A	95.5 A
Input power (MAX)			3.7 kVA	7.3 kVA	10.9 kVA	12.8 kVA	19.2 kVA
Power factor (TYP)			0.99				
Leakage current			5 mA				
Efficiency sink/source (up to)			93 %				
General Specifications							
Environmental conditions	Operating temperature		0 °C to 40 °C				
	Operating humidity		20 % to 90 % RH				
	Storage temperature		-10 °C to 70 °C				
	Storage humidity		20 % to 90 % RH				
	Altitude		1000 m				
Withstand voltage	AC input to case (PE)		DC 2300 V				
Insulation resistance	Between output and GND		DC 500 V				
Mechanical construction	Dimensions (W x H x D) mm		482 mm × 133.3 mm × 790 mm				
	Weight		24 kg	32 kg	40 kg	34 kg	43 kg
Parallel operation			√	√	√	√	√

(*1) When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

(*2) Measurement frequency bandwidth is 20 Hz to 20 MHz.

(*3) Measurement frequency bandwidth is 20 Hz to 2 MHz.

(*4) First set the 0V output, from 10 % to 90 % of the rated output voltage,with pure resistance.

(*5) Rated voltage output, then set to 0 V, from 90 % to 10 % of rated output voltage,with pure resistance.

(*6) The ripple is measured with the output voltage set between (20 to 100) % of the rated output voltage and at full output current. The ripple specification is 0.1 % FS in Source mode and 0.2 % FS in Sink and Load modes. For the 11.6 kW and 17.4 kW models, the ripple specification is 0.5 % FS. For the 2250 V, 9.9 kW model, the ripple specification is 0.15 % FS.

(*7) When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

(*8) Communication interface: one of two, factory-installed.

SPECIFICATIONS

Model			RBS06K6-1000	RBS11K6-1000	RBS09K9-1500	RBS11K6-1500	RBS17K4-1500	RBS09K9-2250	RBS17K4-2250
Output rating									
Rated power			± 6600 W	± 11600 W	± 9900 W	± 11600 W	± 17400 W	± 9900 W	± 17400 W
Rated voltage (source)			0 V to 1000 V		0 V to 1500 V			0 V to 2250 V	
Operating voltage (sink)			10 V to 1000 V		10 V to 1500 V			10 V to 2250 V	
Rated current			±40 A	±80 A	±40 A	±60 A	±80 A	±25 A	±60 A
Output voltage									
Maximum settable voltage			1000 V		1500 V			2250 V	
Setting accuracy			0.05 %+0.05 %FS						
Setting resolution			0.1 V						
Load regulation CV			0.03 %FS						
Line regulation CV			0.015 %FS						
Temperature coefficient CV			100 ppm						
Remote sensing (compensation voltage)			50 V		75 V			112.5 V	
Source only	Transient response(*1)		2 ms						
	Ripple noise	p-p(*2)	1700 mV		2000 mV		2400 mV	6000 mV	
		rms(*3)	295 mV		300 mV		370 mV	400 mV	
	Rise time(*4)	Full load	30 ms						
		No load	15 ms						
	Fall time(*5)	Full load	15 ms						
		No load	30 ms						
Output current									
Settable maximum source current			40 A	80 A	40 A	60 A	80 A	25 A	60 A
Settable maximum sink current			-40 A	-80 A	-40 A	-60 A	-80 A	-25 A	-60 A
Setting accuracy			0.15 %+0.15 %FS					0.2 %+0.2 % FS	
Setting resolution			0.01 A						
Load regulation CC			0.1 %FS						
Line regulation CC			0.05 %FS						
Ripple and noise(*6)		rms(*3)	0.1 %FS	0.5 %FS	0.1 %FS	0.5 %FS		0.15 %FS	0.5 %FS
Temperature coefficient CC			200 ppm						
Output power									
Settable maximum source power			6600 W	11600 W	9900 W	11600 W	17400 W	9900 W	17400 W
Settable maximum sink power			-6600 W	-11600 W	-9900 W	-11600 W	-17400 W	-9900 W	-17400 W
Setting accuracy			0.5 %+0.5 %FS					1 %+1 %FS	
Setting resolution			1 W						
DC Output Resistor									
Resistance range			0 Ω to 1000 Ω		0 Ω to 1500 Ω			0 Ω to 2250 Ω	
Setting accuracy(*7)			≤5 % Rmax(0 % to 10 % Rmax) ; ≤10 % Rmax(10 % to 100 % Rmax)						
Setting resolution			0.01 Ω						
Protective functions									
OVP		Range	0 %FS to 110 %FS						
		Accuracy	0.1 %FS						
OCP		Range	0 %FS to 110 %FS						
		Accuracy	0.2 %FS						
OTP			√	√	√	√	√	√	√
Vsense reverse protection			√	√	√	√	√	√	√
Input voltage protection (OVP, UVP)			√	√	√	√	√	√	√
Display accuracy									
Voltage		Accuracy	0.05 %+0.05 %FS						
		Resolution	0.1 V						
Current		Accuracy	0.15 %+0.15 %FS					0.2 %+0.2 %FS	
		Resolution	0.01 A						
Power		Accuracy	0.5 %+0.5 %FS					1 %+1 %FS	
		Resolution	0.001 kW						
Interfaces digital									
All-in-One(USB,RS232,RS485,CAN,LAN)(*8)			All-in-One / GPIB						
GPIB(*8)			All-in-One / GPIB						
200V three-phase three-wire input									
Nominal input rating			220 Vac to 230 Vac						
Input voltage range			198 Vac to 242 Vac						
Input frequency range			47 Hz to 63 Hz						
Output Power			6600 W	11600 W	9900 W	11600 W	17400 W	9900 W	17400 W
Input current (MAX)		at 198 Vac	36.2 A	63.6 A	54.3 A	63.6 A	95.5 A	54.3 A	95.5 A
Input power (MAX)			7.3 kVA	12.8 kVA	10.9 kVA	12.8 kVA	19.2 kVA	10.9 kVA	19.2 kVA
Power factor (TYP)			0.99						
Leakage current			5 mA						
Efficiency sink/source (up to)			93 %						
General Specifications									
Environmental conditions	Operating temperature		0 °C to 40 °C						
	Operating humidity		20 % to 90 % RH						
	Storage temperature		-10 °C to 70 °C						
	Storage humidity		20 % to 90 % RH						
	Altitude		1000 m						
Withstand voltage	AC input to case (PE)		DC 2300 V						
Insulation resistance	Between output and GND		DC 500 V						
Mechanical construction	Dimensions (W x H x D) mm		482 mm × 133.3 mm × 790 mm						
	Weight		32 kg	34 kg	40 kg	34 kg	43 kg	40 kg	43 kg
Parallel operation			√	√	√	√	√	√	√

(*1) When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

(*2) Measurement frequency bandwidth is 20 Hz to 20 MHz.

(*3) Measurement frequency bandwidth is 20 Hz to 2 MHz.

(*4) First set the 0V output, from 10 % to 90 % of the rated output voltage,with pure resistance.

(*5) Rated voltage output, then set to 0 V, from 90 % to 10 % of rated output voltage,with pure resistance.

(*6) The ripple is measured with the output voltage set between (20 to 100) % of the rated output voltage and at full output current. The ripple specification is 0.1 % FS in Source mode and 0.2 % FS in Sink and Load modes. For the 11.6 kW and 17.4 kW models, the ripple specification is 0.5 % FS. For the 2250 V, 9.9 kW model, the ripple specification is 0.15 % FS.

(*7) When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

(*8) Communication interface: one of two, factory-installed.