

## Selection Guide: RGC1S (with integrated heatsink)

Rated output voltage, Blocking voltage	Connection control/ power	Control voltage	Configuration	Rated operational current (I <sub>t</sub> value in brackets)			
				23AAC (525A <sup>2</sup> s)	23AAC (1800A <sup>2</sup> s)	30AAC (1800A <sup>2</sup> s)	30AAC (6600A <sup>2</sup> s)
600VAC, 1200Vp	Box Clamp/ Screw	4 - 32VDC	E	RGC1S60D20GKEP	RGC1S60D25GKEP	RGC1S60D30GKEP	RGC1S60D31GKEP
Rated output voltage, Blocking voltage	Connection control/ power	Control voltage	Configuration	Rated operational current (I <sub>t</sub> value in brackets)			
				40AAC (6600A <sup>2</sup> s)	60AAC (6600A <sup>2</sup> s)	85AAC (6600A <sup>2</sup> s)	
600VAC, 1200Vp	Box Clamp/ Box Clamp	4 - 32VDC	E U	RGC1S60D41GGEP RGC1S60D41GGUP	RGC1S60D61GGEP RGC1S60D61GGUP	RGC1S60D90GGEP -	

## Selection Guide: RGS1S (with no heatsink)

Rated output voltage, Blocking voltage	Connection control/ power	Control voltage	Configuration	Rated operational current (I <sub>t</sub> value in brackets)		
				23AAC (525A <sup>2</sup> s)	30AAC (1800A <sup>2</sup> s)	30AAC (6600A <sup>2</sup> s)
600VAC, 1200Vp	Box Clamp / Screw	4 - 32VDC	E	RGS1S60D20GKEP	RGS1S60D30GKEP	RGS1S60D31GKEP
Rated output voltage, Blocking voltage	Connection control/ power	Control voltage	Configuration	Rated operational current (I <sub>t</sub> value in brackets)		
				60AAC (6600A <sup>2</sup> s)		
600VAC, 1200Vp	Box Clamp/ Box Clamp	4 - 32VDC	E U	RGS1S60D61GGEP RGS1S60D61GGUP		

## Output Voltage Specifications

Operational Voltage Range	42-600 VAC +10% -15% on max
Blocking Voltage	1200 Vp
Internal Varistor	625V

## Output Specifications

	RGC1S..20 RGS1S..20	RGC1S..25	RGC1S..30 RGS1S..30	RGC1S..31 RGS1S..31	RGC1S..41	RGC1S..61 RGS1S..61	RGC1S..90
Rated operational current <sup>2</sup>							
AC-51 @ T <sub>a</sub> =25°C RGC1S	25.5 AAC	23.8 AAC	30 AAC	30 AAC	49 AAC	75 AAC	85 AAC
AC-51 @ T <sub>a</sub> =40°C RGC1S	23 AAC	23.8 AAC	30 AAC	30 AAC	40 AAC	60 AAC	85 AAC
Max. AC-51 rating RGS1S	23 AAC	n/a	30 AAC	30 AAC	n/a	60 AAC	n/a
Minimum TEACH Current <sup>3</sup>	1.2 AAC	1.2 AAC	1.2 AAC	1.2 AAC	1.2 AAC	5 AAC	5 AAC
Minimum partial load current	0.2 AAC	0.2 AAC	0.2 AAC	0.2 AAC	0.2 AAC	0.83 AAC	0.83 AAC
Detectable partial load failure	>16.67% from current setpoint for more than 120ms						
Rep. overload current - UL508, PF=0.9							
TAMB=40°C, tON=1s, tOFF=9s, 50cycles	60 AAC	60 AAC	84 AAC	84 AAC	126 AAC	144 AC	168 AAC
Max.off-state leakage current	3 mAAC	3 mAAC	3 mAAC	3 mAAC	3 mAAC	3 mAAC	3 mAAC
Max. Transient Surge Current (I <sub>tsm</sub> ) t=10ms	325 Ap	600 Ap	600 Ap	1150 Ap	1150 Ap	1150 Ap	1150 Ap
I <sup>2</sup> t for fusing (t=10ms) Minimum	525 A <sup>2</sup> s	1800 A <sup>2</sup> s	1800 A <sup>2</sup> s	6600 A <sup>2</sup> s	6600 A <sup>2</sup> s	6600 A <sup>2</sup> s	6600 A <sup>2</sup> s
Critical dv/dt (@ T <sub>j</sub> init = 40°C)	1000 V/us	1000 V/us	1000 V/us	1000 V/us	1000 V/us	1000 V/us	1000 V/us

2: refer to derating curves for RGC models and heatsink selection tables for RGS models

3: refer to EMC specifications