

# Bidirectional (AC)

## 1500 Watts

ECG Type	Description	Abs. Max. RMS VAC (Volts)	Breakdown Voltage		Peak Pulse Current Ipp (Amps)	Maximum Ratings		Peak Pulse Power (1 msec) PP (Watts)	Fig. No.
			VBR Peak Volts	@ IT (mA)		Clamping Voltage @ Ipp Vc	Temp. Coefficient of VBR (%/°C)		
ECG4901	Designed for Bidirectional Protection of Data Transmission, Digital Controls, Computer Systems, Etc.	3.50	6.0	10	166	9.4	.051	1500	S14
ECG4903		4.00	6.8	10	143	10.5	.057	1500	S14

ECG Type	Abs. Max. f RMS VAC (Volts)	Breakdown Voltage				Peak Pulse Current Ipp (Amps)	Maximum Ratings		Peak Pulse Power (1 msec) PP (Watts)	Fig. No.
		VBR Peak Volts			@ IT (mA)		Clamping Voltage @ Ipp Vc (Volts)	Temperature Coefficient of VBR (%/°C)		
		Min.	Nom.	Max.						
ECG4905	4.50	7.13	7.5	7.88	10	132.0	11.3	.061	1500	S14
ECG4907	4.90	7.79	8.2	8.61	10	124.0	12.1	.065	1500	
ECG4911	6.00	9.5	10.0	10.5	1.0	103.0	14.5	.073	1500	
ECG4915	7.20	11.4	12.0	12.6	1.0	90.0	16.7	.078	1500	
ECG4919	7.80	12.4	13.0	13.7	1.0	82.0	18.2	.081	1500	
ECG4921	9.00	14.3	15.0	15.8	1.0	71.0	21.2	.084	1500	
ECG4923	9.60	15.2	16.0	16.8	1.0	67.0	22.5	.086	1500	
ECG4927	10.80	17.1	18.0	18.9	1.0	59.5	25.2	.088	1500	
ECG4929	12.00	19.0	20.0	21.0	1.0	54.0	27.7	.090	1500	
ECG4933	14.50	22.8	24.0	25.2	1.0	45.0	33.2	.094	1500	
ECG4935	16.00	25.7	27.0	28.4	1.0	40.0	37.5	.096	1500	
ECG4937	18.00	28.5	30.0	31.5	1.0	36.0	41.5	.097	1500	
ECG4939	19.90	31.4	33.0	34.7	1.0	33.0	45.7	.098	1500	
ECG4941	21.80	34.2	36.0	37.8	1.0	30.0	49.9	.099	1500	
ECG4943	23.50	37.1	39.0	41.0	1.0	28.0	53.9	.100	1500	
ECG4945	25.80	40.9	43.0	45.2	1.0	25.3	59.3	.101	1500	
ECG4947	28.40	42.3	47.0	51.7	1.0	23.2	64.8	.101	1500	
ECG4951	30.00	48.5	51.0	53.6	1.0	21.4	70.1	.102	1500	
ECG4953	33.80	53.2	56.0	58.8	1.0	19.5	77.0	.103	1500	
ECG4955	37.50	58.9	62.0	65.1	1.0	17.7	85.0	.104	1500	
ECG4959	41.00	64.6	68	71.4	1.0	16.3	92.0	.104	1500	
ECG4961	45.30	71.3	75.0	78.8	1.0	14.6	103.0	.105	1500	
ECG4963	49.50	77.9	82.0	86.1	1.0	13.3	113.0	.105	1500	
ECG4965	55.00	86.5	91.0	95.5	1.0	12.0	125.0	.106	1500	
ECG4967	60.40	95.0	100.0	105.0	1.0	11.0	137.0	.106	1500	
ECG4969	66.40	105.0	110.0	116.0	1.0	9.9	152.0	.106	1500	
ECG4971	72.10	114.0	120.0	126.0	1.0	9.1	165.0	.107	1500	
ECG4973	78.50	124.0	130.0	137.0	1.0	8.4	179.0	.107	1500	
ECG4975	90.50	143.0	150.0	158.0	1.0	7.2	207.0	.108	1500	
ECG4977	96.10	152.0	160.0	168.0	1.0	6.8	219.0	.108	1500	
ECG4979	102.5	162.0	170.0	179.0	1.0	6.4	234.0	.108	1500	
ECG4981	108.9	171.0	180.0	189.0	1.0	6.1	246.0	.108	1500	
ECG4983	130.8	209.0	220.0	231.0	1.0	4.6	328.0	.108	1500	
ECG4985	151.3	237.0	250.0	263.0	1.0	5.0	344.0	.110	1500	
ECG4989	121.0	190.0	200	210.0	1.0	5.5	274.0	.108	1500	
ECG4991	181.0	285.0	300.0	315.0	1.0	5.0	414.0	.110	1500	
ECG4993	193.0	304.0	320.0	336.0	1.0	4.5	438.0	.110	1500	
ECG4995	212.1	332.0	350.0	368.0	1.0	4.0	482.0	.110	1500	
ECG4997	241.8	380.0	400.0	420.0	1.0	4.0	548.0	.110	1500	
ECG4999	265.8	418.0	440.0	462.0	1.0	3.5	603.0	.110	1500	

# Bidirectional (AC) (cont'd)

## 7500 Watts

ECG Type	Ave. RMS V <sub>AC</sub> (Volts)	VR DC (Volts)	Breakdown Voltage		Peak Pulse Current I <sub>PP</sub> (Amps)	Maximum Ratings	Peak Pulse Power (1 msec) PP (Watts)	Fig. No.
			V <sub>BR</sub> Peak Volts	@ I <sub>r</sub> (mA)		Clamping Voltage @ I <sub>PP</sub> V <sub>c</sub> (Volts)		
			Min.					
ECG7V24	24.0	34.0	40.0	10.0	112.0	67.0	7500	S21

## 15000 Watts

ECG Type	Ave. RMS V <sub>AC</sub> (Volts)	VR DC (Volts)	Breakdown Voltage		Peak Pulse Current I <sub>PP</sub> (Amps)	Maximum Ratings	Peak Pulse Power (1 msec) PP (Watts)	Fig. No.
			V <sub>BR</sub> Peak Volts	@ I <sub>r</sub> (mA)		Clamping Voltage @ I <sub>PP</sub> V <sub>c</sub> (Volts)		
			Min.					
ECG15V60	60.0	85.0	100.0	1.0	90.0	167.0	15000	S21
ECG15V250	250.0	354.0	418.0	1.0	23.0	652.0	15000	
ECG15V440	440.0	623.0	735.0	1.0	13.2	1138.0	15000	

**Note:** A Surge Clamping Diode is normally selected according to the reverse "Stand Off Voltage" (VR) which should be equal to or greater than the DC or continuous peak operating level. Typical response time equals 1 pico second.