

# Sonoran 1 Series

## System Current Ratings

### Overview

All circuit breakers provided by the end user, that are connected to the inputs and outputs need to have a trip curve which is at least 10 times the rated current for .3 seconds. This is to prevent the breakers from tripping during startup of the unit or the loads attached to the units. Some manufacturers refer to these breakers as “High Inrush” breakers.

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
0.35	120	5	120	2.9
			277	1.3
			480	0.7
			120/240	2.9/1.5
			120/277	2.9/1.3
	208	3	120	2.9
			277	1.3
			480	0.7
			120/240	2.9/1.5
			120/277	2.9/1.3
	240	2.6	120	2.9
			277	1.3
			480	0.7
			120/240	2.9/1.5
			120/277	2.9/1.3
	277	2.2	120	2.9
			277	1.3
			480	0.7
			120/240	2.9/1.5
			120/277	2.9/1.3
480	1.3	120	2.9	
		277	1.3	
		480	0.7	
		120/240	2.9/1.5	
		120/277	2.9/1.3	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
0.525	120	7.7	120	4.4
			277	1.9
			480	1.1
			120/240	4.4/2.2
			120/277	4.4/1.9
	208	4.4	120	4.4
			277	1.9
			480	1.1
			120/240	4.4/2.2
			120/277	4.4/1.9
	240	3.8	120	4.4
			277	1.9
			480	1.1
			120/240	4.4/2.2
			120/277	4.4/1.9
	277	3.3	120	4.4
			277	1.9
			480	1.1
			120/240	4.4/2.2
			120/277	4.4/1.9
480	1.9	120	4.4	
		277	1.9	
		480	1.1	
		120/240	4.4/2.2	
		120/277	4.4/1.9	

# Sonoran 1 Series

## System Current Ratings

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
0.7	120	10.2	120	5.8
			277	2.5
			480	1.5
			120/240	5.8/2.9
			120/277	5.8/2.5
	208	5.9	120	5.8
			277	2.5
			480	1.5
			120/240	5.8/2.9
			120/277	5.8/2.5
	240	5.1	120	5.8
			277	2.5
			480	1.5
			120/240	5.8/2.9
			120/277	5.8/2.5
	277	4.4	120	5.8
			277	2.5
			480	1.5
			120/240	5.8/2.9
			120/277	5.8/2.5
480	2.6	120	5.8	
		277	2.5	
		480	1.5	
		120/240	5.8/2.9	
		120/277	5.8/2.5	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
0.875	120	12.8	120	7.3
			277	3.2
			480	1.8
			120/240	7.3/3.6
			120/277	7.3/3.2
	208	7.4	120	7.3
			277	3.2
			480	1.8
			120/240	7.3/3.6
			120/277	7.3/3.2
	240	6.4	120	7.3
			277	3.2
			480	1.8
			120/240	7.3/3.6
			120/277	7.3/3.2
	277	5.5	120	7.3
			277	3.2
			480	1.8
			120/240	7.3/3.6
			120/277	7.3/3.2
480	3.2	120	7.3	
		277	3.2	
		480	1.8	
		120/240	7.3/3.6	
		120/277	7.3/3.2	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
1.05	120	15.3	120	8.75
			277	3.8
			480	2.2
			120/240	8.75/4.4
			120/277	8.75/3.8
	208	8.8	120	8.75
			277	3.8
			480	2.2
			120/240	8.75/4.4
			120/277	8.75/3.8
	240	7.7	120	8.75
			277	3.8
			480	2.2
			120/240	8.75/4.4
			120/277	8.75/3.8
	277	6.6	120	8.75
			277	3.8
			480	2.2
			120/240	8.75/4.4
			120/277	8.75/3.8
480	3.8	120	8.75	
		277	3.8	
		480	2.2	
		120/240	8.75/4.4	
		120/277	8.75/3.8	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
1.4	120	20.4	120	11.7
			277	5.1
			480	2.9
			120/240	11.7/5.8
			120/277	11.7/5.1
	208	11.8	120	11.7
			277	5.1
			480	2.9
			120/240	11.7/5.8
			120/277	11.7/5.1
	240	10.2	120	11.7
			277	5.1
			480	2.9
			120/240	11.7/5.8
			120/277	11.7/5.1
	277	8.8	120	11.7
			277	5.1
			480	2.9
			120/240	11.7/5.8
			120/277	11.7/5.1
480	5.1	120	11.7	
		277	5.1	
		480	2.9	
		120/240	11.7/5.8	
		120/277	11.7/5.1	

# Sonoran 1 Series

## System Current Ratings

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
2.0	120	29.2	120	16.7
			277	7.2
			480	4.2
			120/240	16.7/8.3
			120/277	16.7/7.2
	208	16.8	120	16.7
			277	7.2
			480	4.2
			120/240	16.7/8.3
			120/277	16.7/7.2
	240	14.6	120	16.7
			277	7.2
			480	4.2
			120/240	16.7/8.3
			120/277	16.7/7.2
	277	12.7	120	16.7
			277	7.2
			480	4.2
			120/240	16.7/8.3
			120/277	16.7/7.2
480	7.3	120	16.7	
		277	7.2	
		480	4.2	
		120/240	16.7/8.3	
		120/277	16.7/7.2	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
2.4	120	35	120	20
			277	8.7
			480	5
			120/240	20/10
			120/277	20/8.7
	208	20.2	120	20
			277	8.7
			480	5
			120/240	20/10
			120/277	20/8.7
	240	17.5	120	20
			277	8.7
			480	5
			120/240	20/10
			120/277	20/8.7
	277	15.2	120	20
			277	8.7
			480	5
			120/240	20/10
			120/277	20/8.7
480	8.8	120	20	
		277	8.7	
		480	5	
		120/240	20/10	
		120/277	20/8.7	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
2.6	120	37.9	120	21.7
			277	9.4
			480	5.4
			120/240	21.7/10.8
			120/277	21.7/9.4
	208	21.8	120	21.7
			277	9.4
			480	5.4
			120/240	21.7/10.8
			120/277	21.7/9.4
	240	19	120	21.7
			277	9.4
			480	5.4
			120/240	21.7/10.8
			120/277	21.7/9.4
	277	16.4	120	21.7
			277	9.4
			480	5.4
			120/240	21.7/10.8
			120/277	21.7/9.4
480	9.5	120	21.7	
		277	9.4	
		480	5.4	
		120/240	21.7/10.8	
		120/277	21.7/9.4	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
3.0	120	43.8	120	25
			277	10.8
			480	6.3
			120/240	25/12.5
			120/277	25/10.8
	208	25.2	120	25
			277	10.8
			480	6.3
			120/240	25/12.5
			120/277	25/10.8
	240	21.9	120	25
			277	10.8
			480	6.3
			120/240	25/12.5
			120/277	25/10.8
	277	19	120	25
			277	10.8
			480	6.3
			120/240	25/12.5
			120/277	25/10.8
480	10.9	120	25	
		277	10.8	
		480	6.3	
		120/240	25/12.5	
		120/277	25/10.8	

# Sonoran 1 Series

## System Current Ratings

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
3.4	120	49.6	120	28.3
			277	12.3
			480	7.1
			120/240	28.3/14.2
			120/277	28.3/12.3
	208	28.6	120	28.3
			277	12.3
			480	7.1
			120/240	28.3/14.2
			120/277	28.3/12.3
	240	24.8	120	28.3
			277	12.3
			480	7.1
			120/240	28.3/14.2
			120/277	28.3/12.3
	277	21.5	120	28.3
			277	12.3
			480	7.1
			120/240	28.3/14.2
			120/277	28.3/12.3
480	12.4	120	28.3	
		277	12.3	
		480	7.1	
		120/240	28.3/14.2	
		120/277	28.3/12.3	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
3.8	120	55.4	120	31.7
			277	13.7
			480	7.9
			120/240	31.7/15.8
			120/277	31.7/13.7
	208	32	120	31.7
			277	13.7
			480	7.9
			120/240	31.7/15.8
			120/277	31.7/13.7
	240	27.7	120	31.7
			277	13.7
			480	7.9
			120/240	31.7/15.8
			120/277	31.7/13.7
	277	24	120	31.7
			277	13.7
			480	7.9
			120/240	31.7/15.8
			120/277	31.7/13.7
480	13.9	120	31.7	
		277	13.7	
		480	7.9	
		120/240	31.7/15.8	
		120/277	31.7/13.7	

4.2	120	61.3	120	35
			277	15.2
			480	8.8
			120/240	35/17.5
			120/277	35/15.2
	208	35.3	120	35
			277	15.2
			480	8.8
			120/240	35/17.5
			120/277	35/15.2
	240	30.6	120	35
			277	15.2
			480	8.8
			120/240	35/17.5
			120/277	35/15.2
	277	26.5	120	35
			277	15.2
			480	8.8
			120/240	35/17.5
			120/277	35/15.2
480	15.3	120	35	
		277	15.2	
		480	8.8	
		120/240	35/17.5	
		120/277	35/15.2	

4.7	120	68.6	120	39.2
			277	17
			480	9.8
			120/240	39.2/19.6
			120/277	39.2/17
	208	39.6	120	39.2
			277	17
			480	9.8
			120/240	39.2/19.6
			120/277	39.2/17
	240	34.3	120	39.2
			277	17
			480	9.8
			120/240	39.2/19.6
			120/277	39.2/17
	277	29.7	120	39.2
			277	17
			480	9.8
			120/240	39.2/19.6
			120/277	39.2/17
480	17.1	120	39.2	
		277	17	
		480	9.8	
		120/240	39.2/19.6	
		120/277	39.2/17	

# Sonoran 1 Series

## System Current Ratings

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
5.25	120	76.6	120	43.8
			277	19
			480	10.9
			120/240	43.8/21.9
			120/277	43.8/19
	208	44.2	120	43.8
			277	19
			480	10.9
			120/240	43.8/21.9
			120/277	43.8/19
	240	38.3	120	43.8
			277	19
			480	10.9
			120/240	43.8/21.9
			120/277	43.8/19
	277	33.2	120	43.8
			277	19
			480	10.9
			120/240	43.8/21.9
			120/277	43.8/19
480	19.1	120	43.8	
		277	19	
		480	10.9	
		120/240	43.8/21.9	
		120/277	43.8/19	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
7.0	120	102	120	58.3
			277	25.3
			480	14.6
			120/240	58.3/29.2
			120/277	58.3/25.3
	208	58.9	120	58.3
			277	25.3
			480	14.6
			120/240	58.3/29.2
			120/277	58.3/25.3
	240	51	120	58.3
			277	25.3
			480	14.6
			120/240	58.3/29.2
			120/277	58.3/25.3
	277	44.2	120	58.3
			277	25.3
			480	14.6
			120/240	58.3/29.2
			120/277	58.3/25.3
480	25.5	120	58.3	
		277	25.3	
		480	14.6	
		120/240	58.3/29.2	
		120/277	58.3/25.3	

8.0	120	116.7	120	66.7
			277	28.9
			480	16.7
			120/240	66.7/33.3
			120/277	66.7/28.9
	208	67.3	120	66.7
			277	28.9
			480	16.7
			120/240	66.7/33.3
			120/277	66.7/28.9
	240	58.3	120	66.7
			277	28.9
			480	16.7
			120/240	66.7/33.3
			120/277	66.7/28.9
	277	50.5	120	66.7
			277	28.9
			480	16.7
			120/240	66.7/33.3
			120/277	66.7/28.9
480	29.2	120	66.7	
		277	28.9	
		480	16.7	
		120/240	66.7/33.3	
		120/277	66.7/28.9	

10.0	120	145.8	120	83.3
			277	36.1
			480	20.8
			120/240	83.3/41.7
			120/277	83.3/36.1
	208	84.1	120	83.3
			277	36.1
			480	20.8
			120/240	83.3/41.7
			120/277	83.3/36.1
	240	72.9	120	83.3
			277	36.1
			480	20.8
			120/240	83.3/41.7
			120/277	83.3/36.1
	277	63.2	120	83.3
			277	36.1
			480	20.8
			120/240	83.3/41.7
			120/277	83.3/36.1
480	36.5	120	83.3	
		277	36.1	
		480	20.8	
		120/240	83.3/41.7	
		120/277	83.3/36.1	

# Sonoran 1 Series

## System Current Ratings

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
12.0	120	175	120	100
			277	43.3
			480	25
			120/240	100/50
			120/277	100/43.3
	208	101	120	100
			277	43.3
			480	25
			120/240	100/50
			120/277	100/43.3
	240	87.5	120	100
			277	43.3
			480	25
			120/240	100/50
			120/277	100/43.3
	277	75.8	120	100
			277	43.3
			480	25
			120/240	100/50
			120/277	100/43.3
480	43.8	120	100	
		277	43.3	
		480	25	
		120/240	100/50	
		120/277	100/43.3	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
14.0	120	204.2	120	116.7
			277	50.5
			480	29.2
			120/240	116.7/58.3
			120/277	116.7/50.5
	208	117.8	120	116.7
			277	50.5
			480	29.2
			120/240	116.7/58.3
			120/277	116.7/50.5
	240	102.1	120	116.7
			277	50.5
			480	29.2
			120/240	116.7/58.3
			120/277	116.7/50.5
	277	88.4	120	116.7
			277	50.5
			480	29.2
			120/240	116.7/58.3
			120/277	116.7/50.5
480	51	120	116.7	
		277	50.5	
		480	29.2	
		120/240	116.7/58.3	
		120/277	116.7/50.5	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
18.0	120	262.5	120	150
			277	65
			480	37.5
			120/240	150/75
			120/277	150/65
	208	151.4	120	150
			277	65
			480	37.5
			120/240	150/75
			120/277	150/65
	240	131.3	120	150
			277	65
			480	37.5
			120/240	150/75
			120/277	150/65
	277	113.7	120	150
			277	65
			480	37.5
			120/240	150/75
			120/277	150/65
480	65.6	120	150	
		277	65	
		480	37.5	
		120/240	150/75	
		120/277	150/65	

KW	Input Voltage	Utility Feed Amps	Output Voltage	Max Output Amps
21.0	120	306.3	120	175
			277	75.8
			480	43.8
			120/240	175/87.5
			120/277	175/75.8
	208	176.7	120	175
			277	75.8
			480	43.8
			120/240	175/87.5
			120/277	175/75.8
	240	153.1	120	175
			277	75.8
			480	43.8
			120/240	175/87.5
			120/277	175/75.8
	277	132.7	120	175
			277	75.8
			480	43.8
			120/240	175/87.5
			120/277	175/75.8
480	76.6	120	175	
		277	75.8	
		480	43.8	
		120/240	175/87.5	
		120/277	175/75.8	