Generator model chart for **Power Pad** high speed wind anchorage

Basic Wind Speed	mph	160	161	163	168	173	176	177	179	184	192	193	199
Calculated wind pressure	psf	55.8	56.5	57.9	61.5	65.2	67.5	68.3	69.8	73.4	80.3	81.2	86.3

Kd=0.85, Exposure C, Kzt=1, K2=0, Ke=1 (assume at sea level), Kh and Kz=0.85 From ASCE 7-22 Chapt 29 - other structures

**Most unfavourable load situation: =0.6D+0.6W sect 2.4.1

*Force at maximum anchored wind speed

PWR PAD dims L W H (in) 54 31 3

PWR PAD mass (lbs) 13.7

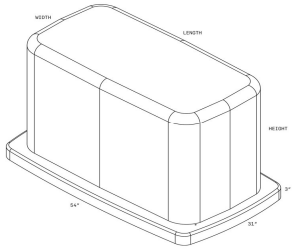
Minimum retention strength of anchor in ground (Lbs F) 350 min (information only, this is not the limiting force)

Retention strength of ground anchor in Power Pad (Lbs F) 282 Limiting downward force of anchor

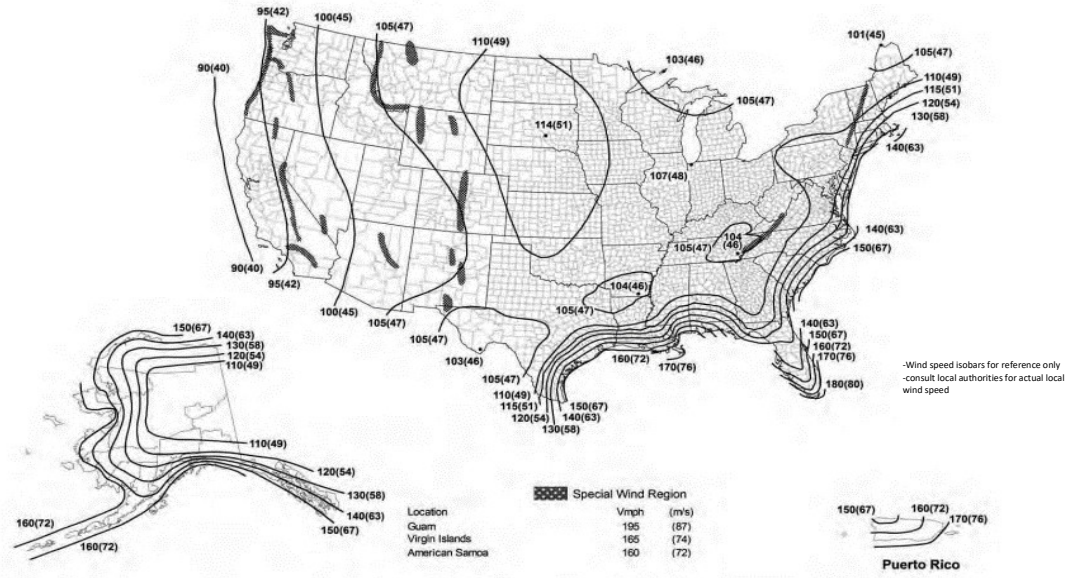
Retention strength of 3/8 lag bolt in Power Pad (Lbs F) 142

Safety Factor for anchor system 1.6

1. Centre of mass assumed at centre of generator and Power Pad
2. Design checks are calculated at the Max anchored and Max no anchor wind speeds shown on the right columns of the chart
3. Dimentions and mass of generator models from manufacturer data sheets
4. Calculations are for specific models listed or models with identical mass, size and mounting specifications
5. Installation instructions for Power Pad and Earth anchors must be followed
6. Wind speed isobar map for reference only



Manufacturer	Size (output) kw	Model	Mass (lbs)	Dimensions (inches) Generator only			Basic wind speed for calculations	Wind force on pad*	Wind force on generator*	0.06xW ** (W=wind force)	Overturn moment	Counter-moment from pad and gen 0.6xD **	Required anchor counter moment	Minimum anchor retention strenght required	Total Dead load (D) counter moment	Counter moment from anchor	Ground Anchor Check	3/8" Lag Anchor retention counter moment	Total gen to pad counter moment	Gen to pad anchor Check	**Max anchored wind speed for generator model**	**Max wind speed with no ground anchor**
				L	W	H	mph	lbs F	lbs F	lbs F	lbs ft	lbs ft	lbs ft	Lbs F	lbs ft	lbs ft	Good/Bad	lbs ft	lbs ft	Good/Bad	**mph**	mph
Generac	10	G00 7171/2	338	48	25	29	159	62.8	539.2	361.2	481.6	272.6	209.0	258.9	500.2	227.7	Good	355.0	627.6	Good	**160**	120
Generac	13	G00 7173/4/5	385	48	25	29	165	69.2	594.5	398.2	531.0	309.0	222.0	274.9	536.6	227.7	Good	355.0	664.0	Good	**168**	128
Generac	14	G00 7223/4/5	385	48	25	29	165	69.2	594.5	398.2	531.0	309.0	222.0	274.9	536.6	227.7	Good	355.0	664.0	Good	**168**	128
Generac	16	G00 7176/7/8	420	48	0	29	170	73.4	630.3	422.2	562.9	336.1	226.8	280.9	563.8	227.7	Good	355.0	691.1	Good	**173**	133
Generac	18	G00 7226/8	420	48	25	29	170	73.4	630.3	422.2	562.9	336.1	226.8	280.9	563.8	227.7	Good	355.0	691.1	Good	**173**	133
Generac	20	G00 7038/9	448	48	25	29	175	75.9	652.5	437.1	582.8	357.8	224.9	278.6	585.5	227.7	Good	355.0	712.8	Good	**176**	137
Generac	22	G00 7042/3	445	48	25	29	175	75.9	652.5	437.1	582.8	355.5	227.3	281.5	583.1	227.7	Good	355.0	710.5	Good	**176**	137
Generac	24	G00 7209/10	455	48	25	29	175	76.8	660.2	442.2	589.7	363.2	226.4	280.5	590.9	227.7	Good	355.0	718.2	Good	**177**	138
Generac	26	G00 7290/1	518	48	25	29	180	82.6	709.5	475.3	633.7	412.1	221.6	274.5	639.7	227.7	Good	355.0	767.1	Good	**184**	148
Briggs and Stratton	18	PP 18	465	46.5	26.8	28.4	180	82.6	673.1	453.4	593.2	371.0	222.2	275.3	598.6	227.7	Good	369.8	740.8	Good	**184**	145
Briggs and Stratton	22	PPDX 22	465	46.5	26.8	28.4	180	82.6	673.1	453.4	593.2	371.0	222.2	275.3	598.6	227.7	Good	369.8	740.8	Good	**184**	145
Briggs and Stratton	22	PP 22	465	46.5	26.8	28.4	180	82.6	673.1	453.4	593.2	371.0	222.2	275.3	598.6	227.7	Good	369.8	740.8	Good	**184**	145
Briggs and Stratton	26	PPDX 26	540	46.5	26.8	28.4	190	91.4	744.7	501.6	656.3	429.1	227.2	281.4	656.8	227.7	Good	369.8	798.9	Good	**193**	156
Briggs and Stratton	26	PP 26	540	46.5	26.8	28.4	190	91.4	744.7	501.6	656.3	429.1	227.2	281.4	656.8	227.7	Good	369.8	798.9	Good	**193**	156
Kohler	10	10 RESV	428	30.6	28	32.4	190.0	90.3	552.9	385.9	569.2	342.3	226.9	281.1	570.0	227.7	Good	369.8	712.1	Good	**192**	148
Kohler	10	10 RESVL	484	30.6	28	32.4	190.0	97.1	594.2	414.8	611.8	385.7	226.1	280.0	613.4	227.7	Good	369.8	755.5	Good	**199**	158
Kohler	12	12 RESV	433	30.6	28	32.4	190.0	90.3	552.9	385.9	569.2	346.2	223.0	276.3	573.8	227.7	Good	369.8	716.0	Good	**192**	149
Kohler	12	12 RES	400	44.2	28.6	31.6	160.0	65.1	561.6	376.0	542.1	320.6	221.5	274.4	548.3	227.7	Good	369.8	690.4	Good	**163**	125
Kohler	14	14 RCA	440	47	26.2	32.2	160	63.6	593.8	394.4	578.5	351.6	226.9	281.0	579.3	227.7	Good	369.8	721.4	Good	**161**	125
Kohler	20	20 RCA	555	47	26.2	32.2	170	73.4	685.2	455.2	667.6	440.7	226.8	281.0	668.4	227.7	Good	369.8	810.5	Good	**173**	140
Kohler	26	26 RCA	625	47	26	32.3	175	78.5	735.9	488.6	718.7	495.0	223.7	277.1	722.6	227.7	Good	369.8	864.8	Good	**179**	148



-Wind speed isobars for reference only
-consult local authorities for actual local wind speed