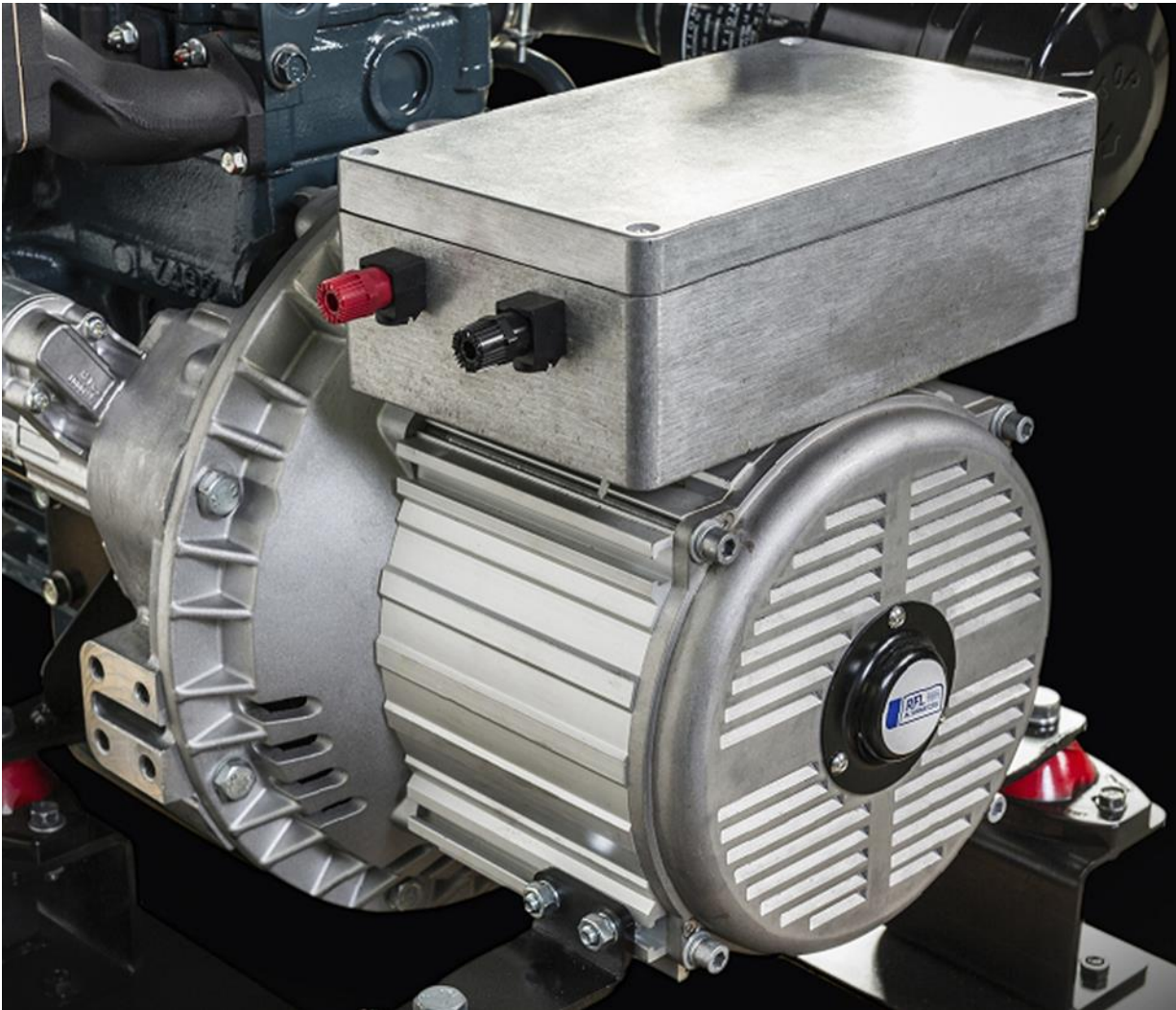


RFL ALTERNATORS RFDC - SERIES

TECHNICAL DATASHEET

Permanent Magnet DC Generator 3.3 – 10kW Range



PERFORMANCE CHARACTERISTICS

The RFL DC permanent magnet alternators are breakthrough in DC alternator design. The DC output is generated by a multi-pole, multi-phase AC generated then rectified enabling a;

- Higher efficiency
- Lower DC voltage ripple
- Minimal electronics – rectifiers only

Other voltages and engine speeds available on request

24/48v - 1500 RPM						
Model	kW	Operating Current		Efficiency		voltage ripple
		24 v	48 v	1/2 load	full load	%
RFDC-3.3	3.3	140	70	85	88	5
RFDC-6.6	6.6	280	140	86	89	5
RFDC-10	10	400	210	87	90	5

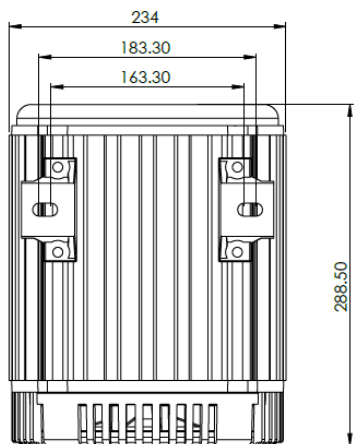
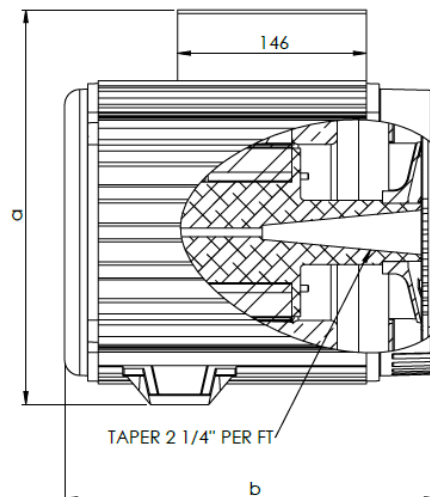
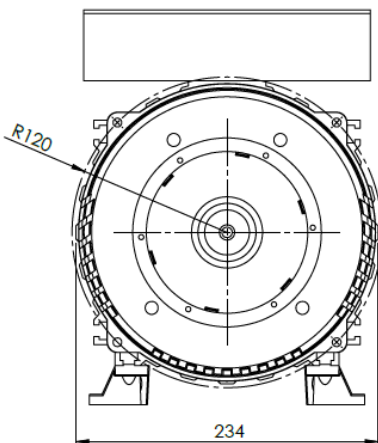
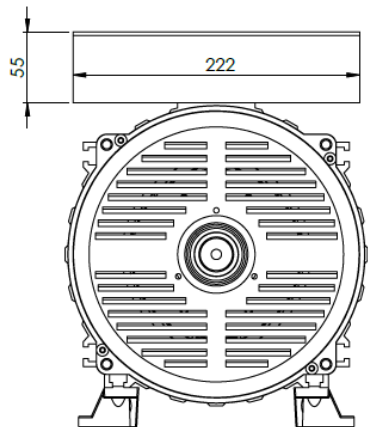
24/48v - 1800 RPM						
Model	kW	Operating Current		Efficiency		voltage ripple
		24 v	48 v	1/2 load	full load	%
RFDC-3.3	4	168	84	86	89	5
RFDC-6.6	8	336	168	87	90	5
RFDC-10	12	480	252	88	91	5

24/48v - 2400 RPM						
Model	kW	Operating Current		Efficiency		voltage ripple
		24 v	48 v	1/2 load	full load	%
RFDC-3.3	5.3	224	112	86	89	5
RFDC-6.6	10.6	448	224	87	90	5
RFDC-10	16	640	336	88	91	5

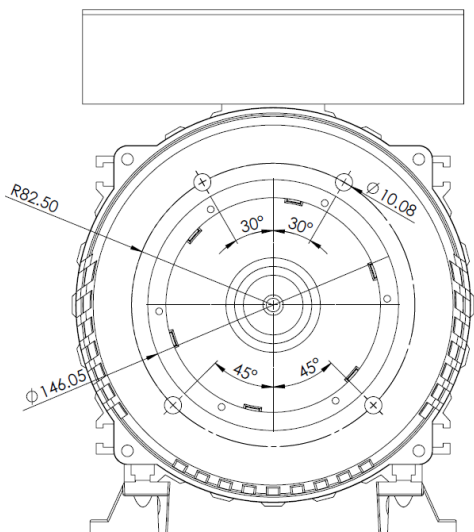
24/48v - 3000 RPM						
Model	kW	Operating Current		Efficiency		voltage ripple
		24 v	48 v	1/2 load	full load	%
RFDC-3.3	6.6	280	140	86	89	5
RFDC-6.6	13.2	560	280	87	90	5
RFDC-10	20	800	420	88	91	5

24/48v - 3600 RPM						
Model	kW	Operating Current		Efficiency		voltage ripple
		24 v	48 v	1/2 load	full load	%
RFDC-3.3	8	336	168	86	89	5
RFDC-6.6	16	672	336	87	90	5
RFDC-10	24	960	504	88	91	5

DIMENSIONS AND INTERFACE OPTIONS

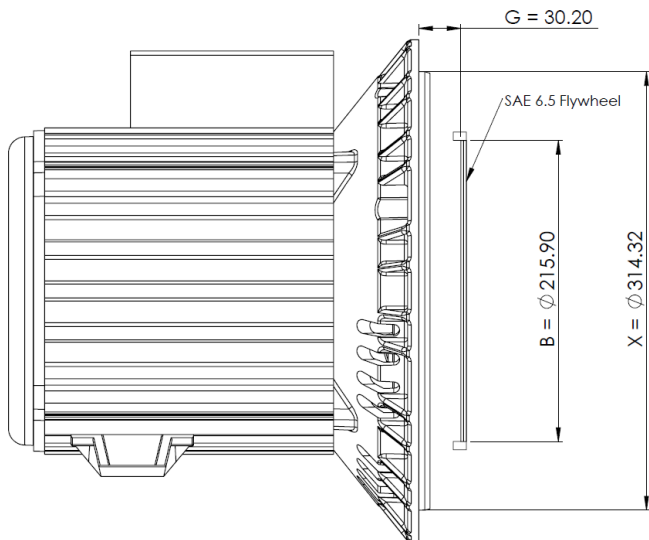
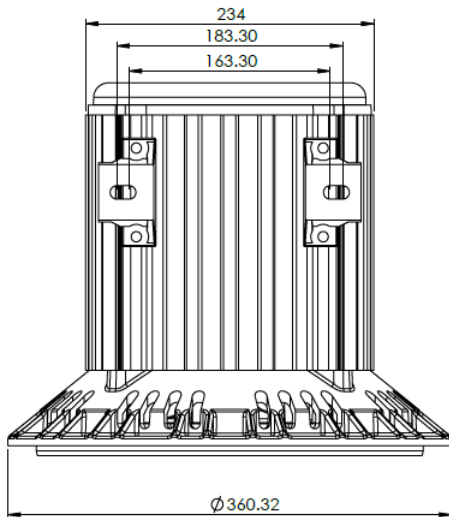
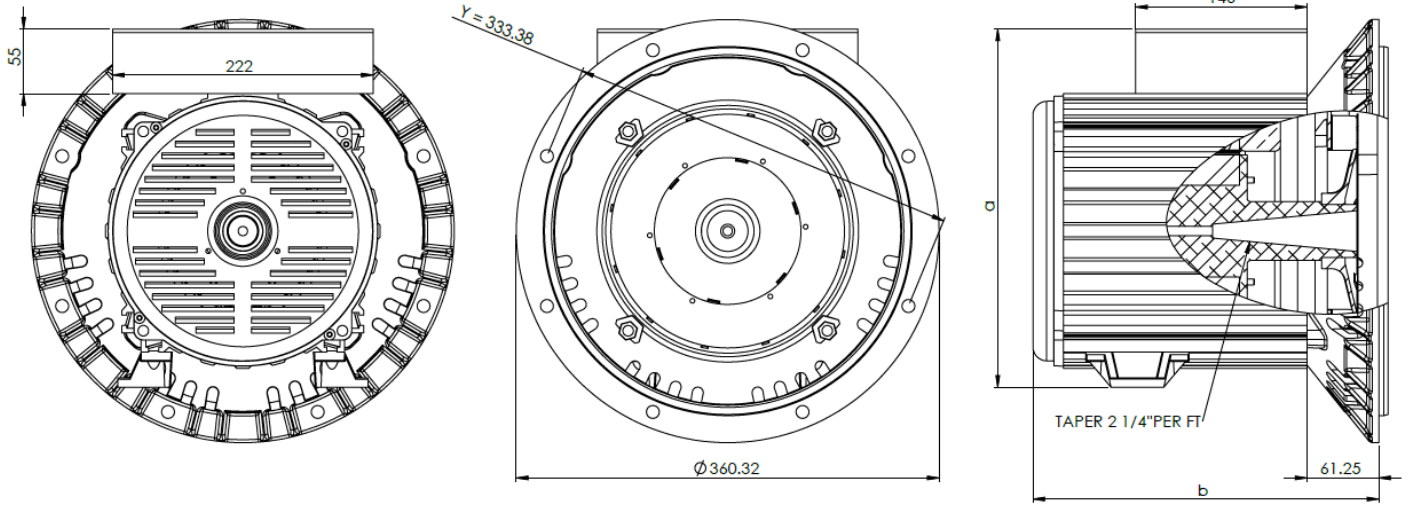


Overall Weights and Dimensions – J609b			
Model	a	b	Weight
	mm	mm	kg
RFDC-3.3	305	221.5	40
RFDC-6.6	305	288.5	53
RFDC-10	305	355.5	68



J609b Specific Dimensions	
V-taper	2 1/4" per foot

DIMENSIONS AND INTERFACE OPTIONS



Weights and Dimensions – SAE5/6.5

Model	a	b	Weight
	mm	mm	kg
RFDC-3.3	305	227.75	42
RFDC-6.6	305	294.75	55
RFDC-10	305	361.75	70

SAE 5 / 6.5 Specific Dimensions

	Y (mm)	X (mm)
SAE 5 Engine Housing	333.38	314.32
	B (mm)	G (mm)
SAE 6.5 Flywheel	215.9	30.2