



Product Catalog

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Contents

ABOUT US	3
MODEL NUMBER DESIGNATION	4
BRUSHLESS DIRECT CURRENT MOTORS	5
PUMPS	5
LOW VOLTAGE HUB MOTORS	6
HIGH VOLTAGE – LIQUID COOLED - PERMAMENT MAGNET SYNCHRONOUS MOTORS	6
CONTACT	7
INTELLECTUAL PROPERTY RIGHTS	7

ABOUT US

Founded in the year 2011, Megh Neel has created a niche for itself in the segment of new generation electric motors. Over the years we have designed and developed Brushless Direct Current (BLDC) motors, Permanent Magnet Synchronous Motors (PMSM), Permanent Magnet Generators (PMG) and its applications. The products listed here is a testament to our unwavering efforts over the years. Thanks to trust espoused in us by our customers, we have had the opportunity to design and/or develop varied range of complex new generation motors.

The primary objectives of the company are

- Help transition to a sustainable World by reducing dependency on existing technologies that severely impact the environment, by improving efficiency of existing systems, promote electric vehicles and renewable energy systems.
- Bring green technologies to the mainstream by making them reliable, affordable and competitive when compared to existing technologies.
- Our primary social objective is to help transition to a sustainable World by raising awareness, adopt sustainable lifestyles, enable transition to renewable energy, and shift towards a circular economy.

To meet our primary business objectives, we are currently manufacturing energy efficient motors and drives. All our products are completely developed inhouse and are 100% indigenous. This has been possible thanks to the work done by our research & development team.

Development of clean technology systems requires continuous research and development. To keep costs down it is also imperative to build systems that uses in-house developed technologies. Considering these aspects we have built a dedicated R&D team to work on the various aspects of our focus area. It may be noted that all of the sub systems of our products are designed and built in-house. We also have developed mathematical models for different types of Brushless DC Motors and Permanent Magnet Generators.

We aid companies, research institutions and colleges to develop different types of BLDC motors and drive systems.

By ensuring continuous research & development in clean technology we are confident of building products that will positively transform the lives of millions.

MODEL NUMBER DESIGNATION

SERIES – OUTPUT WATTS – RPM – VOLTAGE – FRAME

SERIES – Available series are IR120, IR48, OR120 and IR220

OUTPUT WATTS - 150W to 25000W

RPM – 1500, 3000 (For custom, please contact us)

VOLTAGE – 12VDC TO 320VDC or 230VAC (Single Phase)

FRAME – Supported frames are 63B5, 63B14, 81B14, 80B5, 90B5, DGB _ (Differential Gear Box), LQ _ (Liquid Cooled) and other Proprietary Designs (Please refer to table)

EXAMPLES

IR120-150W-3000-12VDC-63B5

IR120-5280W-3000-60VDC-90B5

IR120-5280W-3000-60VD-DGB3

IR220-25000W-3000-320VDC-LQD4

OR120-180W-5000-24VD-BT

BRUSHLESS DIRECT CURRENT MOTORS

Series	Input Watts	Output Watts	RPM	Voltage	Torque	Available Frames	ML	MOQ	Notes
	170	150	3000	12/24/36/48VDC & 230VAC	0.48 Nm	63B5, 63B14, 80B5	75 mm	1	
	250	220	3000	24/36/48VDC & 230VAC	0.7 Nm	63B5, 63B14, 80B5	75 mm	1	
	350	300	1500	24/36/48VDC & 230VAC	1.9 Nm	63B14, 71B14, 80B5	75 mm	1	
	400	350	3000	24/36/48VDC & 230VAC	1.1 Nm	63B14, 71B14, 80B5	75 mm	1	
	500	440	1500	24/36/48VDC & 230VAC	2.8 Nm	63B14, 71B14, 80B5, 90B5	75 mm	1	
	570	500	3000	24/36/48VDC & 230VAC	1.6 Nm	63B14, 71B14, 80B5, 90B5	75 mm	1	
IR120	850	745	1500	36/48V/60DC & 230VAC	4.7 Nm	80B5, 90B5, DGB1	143 mm	1	
IKIZU	1150	1000	3000	36/48V/60DC & 230VAC	3.18 Nm	80B5, 90B5, DGB1	143 mm	1	
	1150	1000	1500	36/48V/60DC & 230VAC	6.36 Nm	80B5, 90B5, DGB2	200 mm	1	
	2300	2000	3000	48V/60/72VDC	6.36 Nm	80B5, 90B5, DGB2	200 mm	1	
	3600	3200	3000	48V/60/72VDC	10.18 Nm	80B5, 90B5, DGB3	262 mm	1	
	4500	4000	3000	48V/60/72VDC	12.7 Nm	80B5, 90B5, DGB3	262 mm	1	
	6000	5280	3000	60/72VDC	16.8 Nm	80B5, 90B5, DGB3	262 mm	1	
	8000	7000	3000	72VDC	22.4 Nm	80B5, 90B5, DGB4	265 mm	1	6 Phase
IR48	240	220	2970	24VDC	0.71 Nm		133 mm	1	Available with encoder. Suitable for Robotics, Industrial and Home Automations

PUMPS

S	Series	Input Watts	Output Watts	RPM	Voltage	Torque	Available Frames	MOQ	Notes
		420	372	3000	24/36/48VDC	1.18 Nm	MB	1	Mono block pump
	IR120	850	745	3000	24/36/48VDC & 230VAC	2.37 Nm	MB	1	Mono block pump
		850	745	3000	24/36/48VDC & 230VAC	2.37 Nm	OW	1	Open Well Submersible

LOW VOLTAGE HUB MOTORS

Series	Input Watts	Output Watts	RPM	Voltage	Torque	Available Frames	MOQ	Notes
	210	180	5000	24VDC	0.34 Nm	ВТ	50	Ball throwing application
	250	220	600	24/36/48VDC	3.5 Nm	MS	10	For Mini Scooters
OR120	500	440	600	24/36/48VDC	6.7 Nm	MS	10	For Mini Scooters
UKIZU	250	220	330	24/36/48VDC	6.36 Nm	BC	50	For Bicycles
	500	440	330	24/36/48VDC	12.3 Nm	BC	50	For Bicycles
	100	88	3000	24VDC	0.28 Nm	FF	10	With built-in impeller

ELECTRIC MOTORS FOR BOATS

Series	Input Watts	Output Watts	RPM	Voltage	Torque	Available Frames	ML	MOQ	Notes
IR120	2000	1750	3000	48/60/72 VDC		Pod		2	Direct Drive Outboard POD motor suitable for
	4800	4000	3000	48/60/72 VDC		Pod		2	small boats, shikara, house boats

HIGH VOLTAGE – LIQUID COOLED - PERMAMENT MAGNET SYNCHRONOUS MOTORS

Series	Input Watts	Output Watts	RPM	Voltage	Torque	Available Frames	MOQ	Notes
	6000	5280	2500	72/96VDC	20 Nm	LQ1	3	
	8000	7040	2500	72/96VDC	26.9 Nm	LQ2	3	
IR220	15000	13200	3000	120/220VDC	42 Nm	LQ3	2	
	25000	22000	3000	220/320VDC	70 Nm	LQ4	2	
	37250	35000	3000	320VDC	114 Nm	LQ4	1	

CONTACT

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