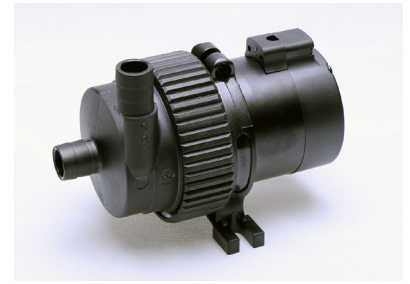


**Do Not Run Pumps Dry. Must have a flooded suction environment.**

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



Performance, Electrical Data

24 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
6.67	25.26	14.87	6.45	0.44	4.53	58.31	24.01	2.43
6.30	23.85	16.77	7.27	0.50	5.11	56.88	24.01	2.37
5.96	22.54	18.44	7.99	0.55	5.62	56.05	24.01	2.33
5.00	18.93	22.62	9.81	0.68	6.90	53.68	24.01	2.24
4.41	16.69	24.81	10.75	0.74	7.56	51.05	24.01	2.13
4.04	15.28	26.35	11.42	0.79	8.03	49.81	24.01	2.08
3.56	13.48	29.22	12.67	0.87	8.91	47.67	24.01	1.99
3.01	11.41	31.68	13.73	0.95	9.66	45.31	24.01	1.89
2.46	9.31	33.48	14.51	1.00	10.21	42.96	24.01	1.79
1.97	7.47	34.74	15.06	1.04	10.59	39.99	24.01	1.67
1.50	5.70	35.88	15.55	1.07	10.94	37.17	24.01	1.55
0.75	2.85	36.92	16.00	1.10	11.26	32.51	24.01	1.35
0.00	0.00	39.74	17.23	1.19	12.12	28.45	24.01	1.19

21 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
6.17	23.36	10.49	4.55	0.31	3.20	43.69	21.01	2.08
5.95	22.52	11.44	4.96	0.34	3.49	43.19	21.01	2.06
4.45	16.86	18.26	7.91	0.55	5.57	39.31	21.01	1.87
3.93	14.89	20.85	9.04	0.62	6.36	37.80	21.01	1.80
3.45	13.05	22.47	9.74	0.67	6.85	35.70	21.00	1.70
3.02	11.44	24.20	10.49	0.72	7.38	34.21	21.01	1.63
2.54	9.60	26.55	11.51	0.79	8.09	32.45	21.01	1.55
2.02	7.65	28.22	12.23	0.84	8.60	30.52	21.00	1.45
1.49	5.62	28.91	12.53	0.86	8.81	28.09	21.01	1.34
0.96	3.63	30.04	13.02	0.90	9.16	25.54	21.01	1.22
0.73	2.76	30.26	13.12	0.90	9.23	24.44	21.01	1.16
0.00	0.00	32.62	14.14	0.98	9.95	21.13	21.01	1.01

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



Performance, Electrical Data

18 VDC								
FLOW			TOTAL HEAD			POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
5.72	21.64	6.99	3.03	0.21	2.13	31.10	18.00	1.73
3.81	14.44	15.11	6.55	0.45	4.61	26.81	18.00	1.49
3.39	12.82	16.55	7.18	0.49	5.05	25.65	18.00	1.42
2.91	11.00	18.18	7.88	0.54	5.54	24.32	18.00	1.35
2.41	9.11	20.15	8.74	0.60	6.14	22.91	18.00	1.27
1.89	7.17	21.22	9.20	0.63	6.47	21.37	18.00	1.19
1.35	5.11	22.89	9.92	0.68	6.98	19.51	18.00	1.08
0.74	2.82	23.63	10.25	0.71	7.21	17.15	18.00	0.95
0.00	0.00	23.36	10.13	0.70	7.12	14.71	18.00	0.82

15 VDC								
FLOW			TOTAL HEAD			POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
4.77	18.07	6.08	2.64	0.18	1.85	19.74	15.00	1.32
3.37	12.77	11.00	4.77	0.33	3.35	17.56	15.00	1.17
2.85	10.78	12.52	5.43	0.37	3.82	16.48	15.00	1.10
2.41	9.14	13.94	6.04	0.42	4.25	15.56	15.00	1.04
1.91	7.23	15.24	6.61	0.46	4.65	14.43	15.00	0.96
1.42	5.36	16.32	7.08	0.49	4.98	13.22	15.00	0.88
0.74	2.82	16.91	7.33	0.51	5.16	11.36	15.00	0.76
0.00	0.00	17.64	7.65	0.53	5.38	9.42	15.00	0.63

12 VDC								
FLOW			TOTAL HEAD			POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
4.00	15.13	4.17	1.81	0.12	1.27	11.54	12.00	0.96
2.70	10.21	7.32	3.17	0.22	2.23	10.50	12.00	0.87
2.41	9.14	7.94	3.44	0.24	2.42	9.95	12.00	0.83
2.31	8.74	7.99	3.46	0.24	2.44	9.78	12.00	0.81
2.10	7.96	8.73	3.79	0.26	2.66	9.46	12.00	0.79
1.90	7.19	9.09	3.94	0.27	2.77	9.17	12.00	0.76
1.70	6.44	9.87	4.28	0.30	3.01	8.85	12.00	0.74
1.48	5.62	10.22	4.43	0.31	3.11	8.46	12.00	0.70
1.28	4.85	10.55	4.57	0.32	3.22	8.14	12.00	0.68
1.08	4.10	10.46	4.54	0.31	3.19	7.70	12.00	0.64
0.87	3.31	10.67	4.63	0.32	3.25	7.34	12.00	0.61
0.74	2.81	10.66	4.62	0.32	3.25	7.13	12.00	0.59
0.00	0.00	11.42	4.95	0.34	3.48	5.91	12.00	0.49

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



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# Electrical Specifications / Wiring Diagram

<b>60W/24V INTG3</b>		
<b>Wire Colors</b>		
Power (V+/V-)	Red/Black	
Speed	N/A	
	Tach	N/A
Operating Voltage Range	12-24 V	
Current at Nominal Voltage	2.55 A (at 24 V)	
Maximum Wattage	60 W	
Speed Control (DC Input)		Note: The negative of the control signal must be referenced to the negative of the pump supply. Input impedance of speed control is typically 100K Ohms
<b>OPTIONAL</b>	<b>PWM</b>	
	Duty Cycle	N/A
	Frequency	N/A
	Voltage Range	N/A
	<b>ANALOG</b>	
	Voltage Range (Nominal)	N/A
Voltage Range (Actual)	N/A	Note: this varies with different wattage limits; pumps with lower limits may reach max performance before 4V.
Tach Signal (DC Output)		Note: The tach signal is a square wave; slew rate 40 micro sec/5 volt. Push/pull output. 6 pulses/revolution
<b>OPTIONAL</b>	Frequency	N/A
	Voltage Range	N/A
	RPM Calculation	N/A
Start-Up Time	< 3 seconds	Note: Pump may take somewhat longer depending on the power supply
Max Inrush Current		
At Start-Up	59 A	
50 to 100% Performance	N/A	
Recommended Fuse	5 A (fast-acting)	

# General Specifications, Wetted Materials

**Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.**

General Specifications	
In-House Stator	50 Turns, 25 AWG
Motor Magnets	Segmented Neodymium
Suction Port	1/2" MHB
Discharge Port	1/2" MHB
Mounting Bracket	PPS material
Max Fluid Temp	149°F (65°C)
Max System Pressure	75 PSI
Weight	Approximately .8 LBS, 390 Grams
Product Test Report	PTR23895

Wetted Materials	
Pump Body	PPS
Pump Adapter	PPS
Impeller	PPS
Impeller Shaft	Ceramic
Bearing	Ceramic
Static O-Ring	EPDM
Agency Approvals	RoHS/REACH
UL778: Motor-operated Water Pumps NSF 61: Potable Water NSF 372: Lead Content	Many GRI pumps are RoHS & REACH compliant. For declarations by specific model numbers, please contact GRI.

