








Orca Series Power Supply Unit (PSU) Recommendations

Part Image	Part Number	Approx Cost (USD)	Voltage	Power	ORCA-6-LITE			ORCA-6-24V			ORCA-6-48V			ORCA-15-48V		
					Stall Force	Max Speed	Power Surplus	Stall Force	Max Speed	Power Surplus	Stall Force	Max Speed	Power Surplus	Stall Force	Max Speed	Power Surplus
	<u>RSP-750-24</u>	\$222	24 V	750 W	247 N	1.5 m/s	57%	389 N	2.1 m/s	0%	287 N	1.4 m/s	46%	429 N	0.9 m/s	51%
	<u>MSP-100-24</u>	\$263	24 V	1000 W	247 N	1.5 m/s	67%	426 N	2.1 m/s	10%	287 N	1.4 m/s	59%	429 N	0.9 m/s	63%
	<u>RSP-1000-48</u>	\$289	48 V	1000 W	PSU voltage exceeds motors requirements			426 N	4.3 m/s	10%	449 N	2.8 m/s	0%	708 N	1.7 m/s	0%
	<u>RSP-2000-48</u>	\$520	48 V	2000 W	PSU voltage exceeds motors requirements			426 N	4.3 m/s	55%	573 N	2.8 m/s	19%	857 N	1.7 m/s	27%
	<u>RSP-3000-48</u>	\$607	48 V	3000 W	PSU voltage exceeds motors requirements			426 N	4.3 m/s	70%	573 N	2.8 m/s	46%	857 N	1.7 m/s	51%

Disclaimer: This table is for illustration purposes only. In some applications, power supplies with higher power capacity might be needed.

Stall Force: Max force achievable at room temperature with the given PSU, when the motor has no speed.

Max Speed: Unloaded speed limit achievable at the supplied voltage.

Power Surplus: Indicates the excess power available from the supply when fully powering a single stalled motor.

Note: Power surplus is calculated for a stalled motor. Motors applying force at high speeds will draw (and regenerate) extra power

Please contact sales@irisdynamics.com with specifics on your application for more information.