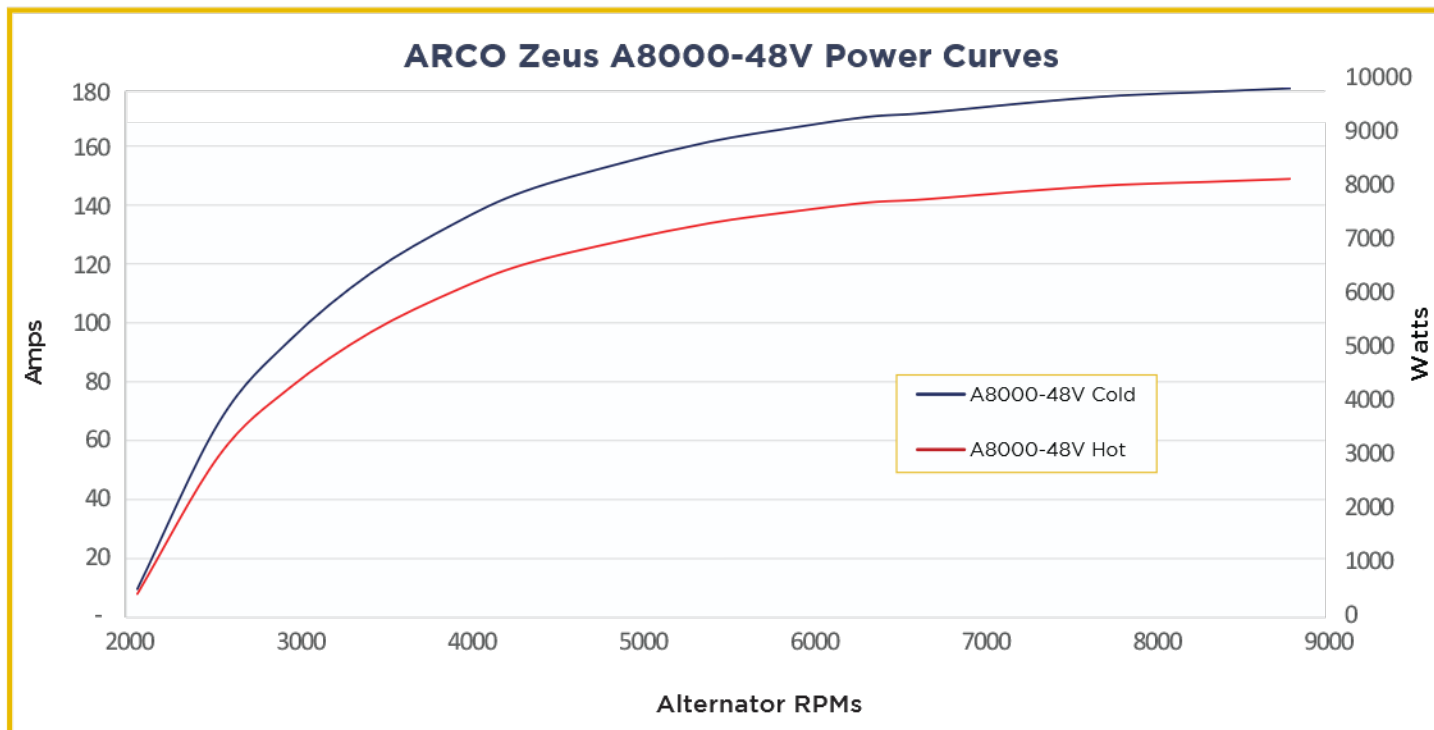


ZEUS A8000-48V



ARCO ZEUS 48V ADVANTAGE: BETTER TECHNOLOGY = BETTER PERFORMANCE

ARCO Zeus A8000-48V

The ARCO Zeus A8000-48V alternator turns on at lower RPMs, runs cooler and provides more power than other 48V alternators that are larger and heavier. This alternator continuously generates over 3kW (55 Amps) at 2,500 RPM, and almost 6kW (111 Amps) at 4,000 Alternator RPM. In real world terms, a marine diesel engine charging at 1,200 RPM with a 3.13:1 pulley ratio is generating just over 5kW (97 Amps), and a Mercedes Sprinter at 750 RPM with a 3.21:1 ratio is generating over 3kW (55 Amps)!

True 48V Alternators

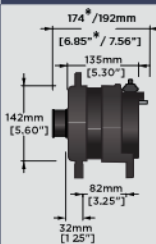
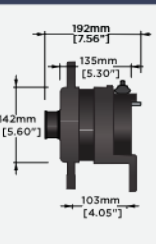
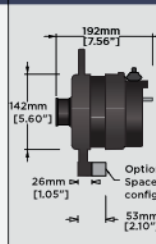
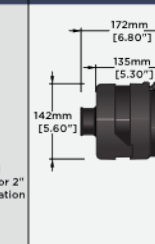
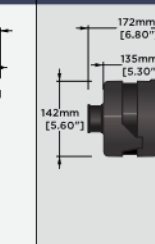
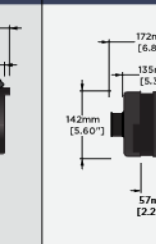
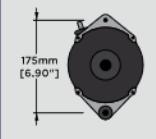
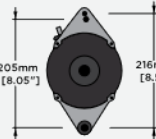
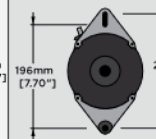
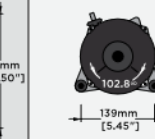
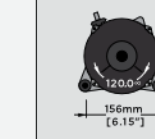
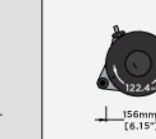
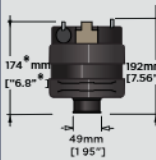
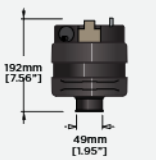
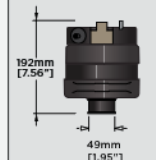
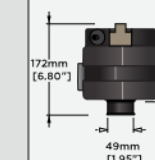
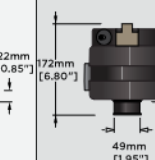
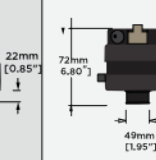
Instead of using rotors designed for 48 volts, many competitor's alternators simply use their 12V rotors which is less efficient and limits output at all RPMs. In this scenario, your external smart regulator must drastically reduce field, by as much as 78%. If this is not done correctly, you run the risk of destroying the unit and damaging other components in your system. ARCO utilizes a native 48V rotor and field current. This results in our 48V alternator running cooler than competitor's 48V alternators, having a direct impact on the alternator's lifespan.

Specifications

A8000-48V

Voltage	48V		
Field Type	P		
Rotor Poles	16		
Rotor Source Voltage	48V		
Stator Size	138mm		
Frame Size	Large		
Weight of heaviest option (N62 with clutch pulley)	15.89 lbs / 7.2 kg		
Regulation	External Only (EX)		
Finish	(Black) E-coating		
Cut-In Alt. RPM	1,920 Alternator RPM		
Maximum Alt RPM	19,000		
Battery Post	M8 Thread Post, Side Mount and Rear Exit		
Standard Pulley	49K6 (6-groove, 49mm)		
Pulley Mount	17mm diameter shaft, 25mm long, threaded M17 x 1.5		
Pulley Hardware	M17 x 1.5 x 24mm nut, w/ 18mm ID x 29mm OD washer (Incl.)		
Diodes	6 positive, 6 negative, 80A Rated, Avalanche		
Max Output (Cold, 9,000 RPM) at 53.5V	9,630 Watts	180 Amps	14.80 kW PTO
Sustained Cruising Output (Hot, 6,000 RPM) at 53.5V	7,383 Watts	138 Amps	10.5 kW PTO
Sustained Idle Output (Hot, 3,000 RPM) at 53.5V	4,173 Watts	78 Amps	6 kW PTO
Max Continuous Operating Temperature	100°C / 212°F		

A8000-48V DIMENSIONS

	3.15"/R*	4" J180	1"-2"	Vortec	N62	Transit
Side View						
Front View						
Top View						

Only Isolated ground models available in 3.15", 3.15"R, 4" J180, and 1"-2" mounts.

*Rear exit battery post for Yanmar Common Rail and other engines.

ZEUS A8000-48V

APPLICATIONS FOR A8000-48V HIGH OUTPUT ALTERNATOR

Mounting	ARCO Part Number	Application
1-2" Single Foot (Isolated ground only)	4605	Replaces most domestic styles using a single 1" or 2" mounting foot (e.g., Motorola, Prestolite).
3.15" Saddle Mount (Isolated ground only)	4601	Replaces most small case styles using a 3.15" J180 saddle style mount (e.g., Hitachi, Lucas, Mitsubishi) Most Yanmars.
3.15"R Saddle Mount, Rear Exit B+ (Isolated ground only)	4602	Must Be used on Yanmar Common Rail Engines introduced after 2013 (JH-CR, 3JH40, 4JH45, 4JH57, 4JH80, 4JH110).
4" J180 Saddle (Isolated ground only)	4603	Replaces most Volvo Penta alternators using a 4" J180 saddle style mount. Also use on many larger industrial-based engines.
Vortec	4606	Replaces Mando type alternators using Vortec/GM pad mounting feet (Found on many Mercruiser and Volvo Penta 3.0GLM, 3.0GLP, 4.3GXi, 5.7GiL, 5.7GXIL Marine Engines).
Vortec (Isolated Ground)	4609	Replaces Mando type alternators using Vortec/GM pad mounting feet (Found on many Mercruiser and Volvo Penta 3.0GLM, 3.0GLP, 4.3GXi, 5.7GiL, 5.7GXIL Marine Engines).
N62 (Clutch Pulley)	4604	Replaces factory dual alternator on many Sprinter RVs, including Roadtrek, Thor, Winnebago, and others. For all Mercedes Sprinter applications with N62 option. Meets current Mercedes Upfitter weight and PTO requirements.
Transit	4607	Replaces Ford Transit alternators 3.5L & 3.7L Gas engines 2015-2022.

A8000-48V DETAILS

Voltage	Maximum Output Watts (Amps)	Sustained Idle Output Watts (Amps)*	Housing	Regulation	Ground Type	Pulley	Part #
48V	9,630 (180)	4,173 (78)	Vortec	External Only	Case Ground	49mm K6 (6 groove)	4606
48V	9,630 (180)	4,173 (78)	Transit	External Only	Case Ground	49mm K6 (6 groove)	4607
48V	9,630 (180)	4,173 (78)	N62 Clutch Pulley**	External Only	Case Ground	50mm K6 (6 groove)	4604
48V	9,630 (180)	4,173 (78)	Vortec (Isolated Ground)	External Only	Isolated Ground	49mm K6 (6 groove)	4609
48V	9,630 (180)	4,173 (78)	1"-2" Single Foot	External Only	Isolated Ground	49mm K6 (6 groove)	4605
48V	9,630 (180)	4,173 (78)	3.15" Dual Foot	External Only	Isolated Ground	49mm K6 (6 groove)	4601
48V	9,630 (180)	4,173 (78)	3.15"R Dual Foot, Rear Exit B+	External Only	Isolated Ground	49mm K6 (6 groove)	4602
48V	9,630 (180)	4,173 (78)	4" J180	External Only	Isolated Ground	49mm K6 (6 groove)	4603

*3,000 alternator RPM sustained under load and hot conditions for 1 hour.

**Mercedes Upfitter Compliant.

