## POWER SOLUTIONS INTERNATIONAL, INC.

**EXECUTIVE ORDER U-L-011-0115**New Off-Road Large Spark-Ignition
Engines Above 19 Kilowatts

Pursuant to the authority vested in California Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following new large spark-ignition engines and emission control systems produced by the manufacturer are certified for use in off-road equipment as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY		DISPLACEMENT (liters)	ENGINE CLASS		FUEL TYPE		
2023		PPSIB.9982GA	0.970, 0.998	> 825 cc - ≤ 1.0 liter		Gasoline, LPG		
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT USAGE			
1000		Three-Way Catalytic Converter, Heated Oxygen Sensor, Multiport Fuel Injection			Forklift, Sweeper, Aerial Lift, Other			
ENGINE MODELS (rated power in kilowatt, kW)		See Attachment						

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust certification emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2433(b)(1)) and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(3).

	HC+NOx (g/kW-hr)	CO (g/kW-hr)		
STANDARD	0.8	20.6		
CERTIFICATION LEVEL	0.2	4.7		

**BE IT FURTHER RESOLVED:** That for the listed engines for the aforementioned model-year, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2433(d) (certification and test procedures), 13 CCR Section 2404 (emission control labels), and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed on this \_\_\_\_ day of May 2022.

Allen Lyons, Chief

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**Emissions Certification and Compliance Division** 

For CARB Use Only Executive Order: U-L-011-0115 Attachment \_1\_of\_1\_

Date: 02/22/2022 Engine Family: PPSIB.9982GA

Model Summary

			S15.						
		Sales C	Sales Codes (Check all appropriate)						
S13. Engine Model	S4. Engine Code	CA Only	49-State	50-State	S16. Engine Displacement (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
970GA	970GA			x	0.97	24.0	3600	47.4	3060
970DF	970DF			х	0.97	24.0	3600	47.4	3060
998DF	998DF			X	0.998	25.4	3600	49.6	3060
3305.	3303.			^	0.550	25.1	3000	15.0	3000