CALIFORNIA AIR RESOURCES BOARD	LONCIN MOTOR CO., LTD.	**EXECUTIVE ORDER U-U-145-0659** New Off-Road Small Spark-Ignition Engines at or Below 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 engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE CLASS	FUEL TYPE
2024	RCGPS.2231HB	4-stroke, > 80 cc - < 225 cc	Gasoline-Liquefied Petroleum Gas (LPG) Dual-Fuel
DURABILITY HOURS	**EMISSION CONTROL SYSTEMS & SPECIAL FEATURES**	**EQUIPMENT APPLICATION**	
500	Three-Way Catalyst (TWC)	Generator Set	

Engines certified by this Executive Order are further described in Attachment.

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), 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 Section 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," amended January 1, 2023.

	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	6.0	400	*
FAMILY EMISSION LIMIT	*	*	*
CERTIFICATION LEVEL	5.0	293	*

*not applicable

BE IT FURTHER RESOLVED: That the family emission limit(s) (FELs), as applicable, is an emission level that is declared by the manufacturer to serve for the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 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.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

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 23rd day of August 2024.

Robin U. Lang

Robin U. Lang, Chief
Emissions Certification and Compliance Division

SORE Exhaust Model Summary Template (rev. 2020)

For CARB Use Only
Executive Order: U-U-145-0659
Attachment __1___ of __1___

Date: ____5/23/2024_____
Engine Family: __RCGPS.2231HB___

Model Summary

Worst Case (Check One)	47. Model Designation	48. Sales Code	49. Displacement (cc)	50. Bore/Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emission Control System
X	HM225G-2C (gasoline)	50-State	223	70/58	25	4.8kW	3600	13.6	2600	TWC
	HM225G-2C (LPG)	50-State	223	70/58	25	4.5kW	3600	12.4	2600	TWC
	HM210G-2C (gasoline)	50-State	212	70/45	25	4.5kW	3600	12.6	2600	TWC
	HM210G-2C (LPG)	50-State	212	70/45	25	4.2kW	3600	12	2600	TWC