CALIFORNIA AIR RESOURCES BOARD	**CHONGQING RATO TECHNOLOGY CO., LTD.**	**EXECUTIVE ORDER U-U-169-0603** New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

Pursuant to the authority vested in California Air Resources Board (CARB) 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	RCRPS.3012GA	4-stroke, ≥ 225 cc	Gasoline, Gasoline-Liquefied Petroleum Gas (LPG) Dual-Fuel
DURABILITY HOURS	**EMISSION CONTROL SYSTEMS & SPECIAL FEATURES**	**EQUIPMENT APPLICATION**	
250	Engine Modification (EM)	Compressor, Pressure Washer, Generator Set, Tiller, Edger, Other	

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	8.0	549	*
FAMILY EMISSION LIMIT	*	*	*
CERTIFICATION LEVEL	7.2	394	*

*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).

BE IT FURTHER RESOLVED: That the listed engine models are certified based on the information provided by the manufacturer in its application for certification, the manufacturer's attestation that the listed engine models meet all applicable certification requirements for 2024 model year small off-road engines in the 13 CCR Sections 2400 through 2409, and Sections 2750 through 2774, and on CARB staff's review of the information and documents submitted by the manufacturer in support of that attestation.

On December 20, 2022, CARB submitted a request that the United States Environmental Protection Agency (U.S. EPA) grant California an authorization for 2021 Amendments to its Small Off-Road Engine regulation, which establishes emission standards and other emission-related requirements for off-road spark-ignition engines rated at or below 19 kilowatts. If U.S. EPA grants California the authorization for the 2021 Amendments to the Small Off-Road Engine regulation, this Executive Order terminates on the date that U.S. EPA's authorization decision is published in the Federal Register.

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 1st day of July 2024.

Robin U. Lang, Chief
Emissions Certification and Compliance Division

SORE Exhaust Model Summary Template (rev. 2020)

For CARB Use Only
Executive Order: U-U-169-0603
Attachment __1__ of __1__

Date: _____05/24/2024_____
Engine Family: ___RCRPS.3012GA_____

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	R300(Gasoline)	50-State	301	80/60	22±2 BTDC	6.0kW	3600	18N.m	2500	EM
	R290-S(Gasoline)	50-State	292	80/58	25±2 BTDC	6.9kW	3600	18N.m	2500	EM
	R300N(Gasoline-LPG dual-fuel)	50-State	301	80/60	22±2 BTDC	6.0kW (gasoline)/ 5.4kW (LPG)	3600	18N.m	2500	EM
	R290N-S(Gasoline-LPG dual-fuel)	50-State	292	80/58	25±2 BTDC	6.9kW (gasoline)/ 6.2kW (LPG)	3600	18N.m	2500	EM
	K300(Gasoline)	50-State	301	80/60	22±2 BTDC	6.0kW	3600	18N.m	2500	EM