

MARUYAMA MANUFACTURING COMPANY, INC.

EXECUTIVE ORDER U-U-025-0290
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	ENGI	NE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefie petroleum gas)			
2020	LM4X	(S.026416	25	2-stroke,	50 cc	Gasoline			
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
300		EGR/OC			Pump, Line Trimmer, Hedge Trimmer, Leaf Blower/Vacuum, Tiller, Edger, Brushcutter				
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment							
EGR=exhaus	t gas recirc	ulation AIR=sec	ondary air injection PAIR=pu	ulsed AIR MFI=mu	lti port fuel inje	warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S action SFI=sequential MFI TBI=throttle body fuel injection flix)=in series ECM=engine control module			

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," adopted October 25, 2012.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)	
STANDARD	50	536	2.0	
FAMILY EMISSION LEVEL	49	*	1.0	
CERTIFICATION LEVEL	41	19	0.8	

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in 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 at El Monte, California on this

___ day of March 2020.

Aller Lyons, Chief

Emissions Certification and Compliance Division

Attachment

(10+1) page

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Model Year:

2020

MARUYAMA MFG. CO., INC.

issued: Revised: 12/12/2019

Manufacturer: Engine Family: LM4XS.026416

E.O. Number:

12/12/2019 4-4-025-0290

Small Off-Road Engine Model Summary Form

Units for Table: kW

	4 7.	48.	49.	50.	51.	52.	53.	54.	55.	56.
Worst Case?	Model	Sales	Displ	Bore/	Ignition	Max	Rated Speed	Rated	Torque Speed	Emiss
	Designation	Code	(cc)	Stroke	Timing	Power	(RPM)	Torque	(RPM)	Control Sys
X	CER260	50-State	25.4	34x28	BTDC35deg	0.82	8000	1.206Nm	6000	EGR/OC
	CERT260	50-State	25.4	34x28	BTDC35deg	0.82	8000	1.206Nm	6000	EGR/OC
	CER260EHT	50-State	25.4	34x28	BTDC35deg	0.82	8000	1.206Nm	6000	EGR/OC