

ZHEJIANG XINGYU INDUSTRY & TRADE CO., LTD.

EXECUTIVE ORDER U-U-159-0195
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-14-012:

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		DISPLACEMENT ENGINE C		CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)			
2019	KYKX	XS.1501GL 150		4-stroke, >80 cc - <225 cc		Gasoline-LPG Dual Fuel			
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
125			TWC, O2S, TBI			Generator Set			
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment							
EGR=exhaus	at gas recirc	ulation AIR=sec	ondary air injection PAIR=	pulsed AIR MFI=mu	Iti port fuel injec	varm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S ction SFI=sequential MFI TBI=throttle body fuel injection ix)=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	10.0	549	*	
FAMILY EMISSION LEVEL	*	*	*	
CERTIFICATION LEVEL	5.6	159	*	

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

_ ..., 0, 0........, 20...

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT PAIGE I UFI

Issued:

Page: 9

Manufacturer: Zhejiang Xingyu Industry & Trade Co., Ltd. Revised:

11/12/2018

Model Year:

Engine Family: KYKXS.1501GL

2019

E.O. Number:

Small Off-Road Engine Model Summary Form

Units for Table: kW

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54: Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
X	XG-157FD	50-State	150	57.4/57.8	13-25	3.3	5000	7.26	4000	TWC
	age distinct					CONTRACTOR OF THE PROPERTY OF			Percent Meaning	
					Microsoft 189000	and the second s	and an analysis of the state of		SENSIALAN	
						dies exemplarespect, est	on summer of the		ne demandered vv	
			man republic		Section of the sectio	NAME AND ADDRESS OF THE ADDRESS OF T	Personal Consultation		or which the second sec	
				,	The state of the s	a consideration of the constraint of the constra			The state of the s	
						Military Charles			100	
			3		Name of the last o	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the second s	LT. he depend of the last of t	STATE OF THE PROPERTY OF THE P
						CHAIN COLUMN TO THE COLUMN TO			T-LIC Life in the life in the	The state of the s
	440 06/00/10				Policia de la companya del companya de la companya della companya	Tall the state of		7.11	200	Bright Street
156			van		est interestinant est	one poeretrement.	The state of the s		rgwesterman. List	September 1967
			<u> </u>		PERSONAL PROPERTY.	Street and all the street and al	application of the second		setum	electrolistic utilazzarea
					R constitution		e constituent		LE discretization	