

## CHONGQING ZONGSHEN GENERAL POWER MACHINE CO., LTD.

EXECUTIVE ORDER U-U-082-0272
New Off-Road Small Spark-Ignition
Engines at or Below 19 Kilowatts

Pursuant to the authority vested in the 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	ENGIN	NGINE FAMILY DISPLACEMENT (cc) ENG		ENGINE CI	_ASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)				
2018	JCZH	S.7502V1	679, 750	4-stroke, ≥2	25 cc	Gasoline				
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION					
250			EM			Riding Mower, Tractor, Compressor, Pump, Pressure Washer, Stump Beater, Non-Backpack Blower, Tiller, Commercial Turf				
ENGINE CODES/MODELS (rated power in kilowatt, kW)			See Attachment							
EGR=exhaus	t gas recirc	ulation AIR=sec	ondary air injection PAIR=pul	Ised AIR MFI=multi	port fuel inje	=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S ection SFI=sequential MFI TBI=throttle body fuel injection ffix)=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	8.0	549	*	
FAMILY EMISSION LEVEL	*	*	*	
CERTIFICATION LEVEL	6.8	437		

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 December 2017

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Model Year: Manufacturer:

2018

Attachment, 1 of 1

Issued:

5/14/2018

Engine Family:

Chongqing Zongshen General Power JCZHS.7502V1

Revised:

E.O. Number: U - U - 082 - 0272RC1:7-3-18

## **Small Off-Road Engine Model Summary Form**

Units for Table: kw

	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.
Worst	Model	Sales	Displ	Bore/	Ignition	Max	Rated Speed	Rated	Torque Speed	Emiss
Case?	Designation	Code	(cc)	Stroke	Timing	Power	(RPM)	Torque	(RPM)	Control Sys
	8Q82HU_	50-State	750	82/71	25	16.5	3600	47	2800	EM
Х	8Q78HU_	50-State	679	78/71	25	15.2	3600	43	2600	EM
	8Q78XU_	50-State	679	78/71	25	15.2	3600	43	2600	EM
	8Q78KU_	50-State	679	78/71	25	15.2	3600	43	2600	EM
	8Q78ZU_	50-State	679	78/71	25	15.2	3600	43	2600	EM
•	8Q82XU_	50-State	750	82/71	25	16.5	3600	47	2800	EM
	8Q82KU_	50-State	750	82/71	25	16.5	3600	47	2800	EM
	8Q82ZU_	50-State	750	82/71	25	16.5	3600	47	2800	EM
	4Q78HU_	50-State	679	78/71	25	15.2	3600	43	2600	EM
	4Q78XU_	50-State	679	78/71	25	15.2	3600	43	2600	EM
	4Q78KU_	50-State	679	78/71	25	15.2	3600	43	2600	EM
	4Q78ZU_	50-State	679	78/71	25	15.2	3600	43	2600	EM