

## CHONGQING AM PRIDE POWER&MACHINERY CO.,LTD

EXECUTIVE ORDER U-U-164-0122 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.

2021     MCPPS.4572GA     389, 420, 457     4-stroke, ≥ 225 cc     Gasoline       DURABILITY HOURS     SPECIAL FEATURES & TYPICAL EQUIPMENT APPLICATION       250     EM     Compressor, Pump, Pressure Washer, Generator Set       ENGINE CODES/MODELS (rated power in kilowatt, kW)     See Attachment	MODEL YEAR ENGI		NE FAMILY	DISPLACEMENT (cc) ENGINE CLASS		CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
HOURS EMISSION CONTROL SYSTEMS TYPICAL EQUIPMENT APPLICATION  250 EM Compressor, Pump, Pressure Washer, Generator Set  ENGINE CODES/MODELS (rated power in See Attachment	2021	MCPPS.4572GA		389, 420, 457	4-stroke, ≥ 225 cc		Gasoline		
ENGINE CODES/MODELS (rated power in			0			TYPICAL EQUIPMENT APPLICATION			
CODES/MODELS (rated power in See Attachment	250			EM		Compressor, Pump, Pressure Washer, Generator Set			
	CODES/MODELS (rated power in		See Attachment						

ABBREVIATIONS: EM=engine modification TWC/OC=three-way/oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S EGR=exhaust gas recirculation AIR=secondary air injection PRIR=pulsed AIR MFI=multi port fuel injection PSI=sequential MFI TBI=throttle body fuel injection DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2(prefix)=parallel (2)(suffix)=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	6.7	326	*	

**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 on this //th day of February 2021.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

Date: 11/12/2020

Engine Family: MCPPS.4572GA

For CARB Use Only
Executive Order: U-U-164-0122
Attachment \_\_1\_ of \_\_1\_\_

## **Model Summary**

	47.	48.	49.	50.	51.	52.	52.	54.	55.	56.
Worst Case (Check One)	Model Designation	Sales Code	Displacement (cc)	Bore/Stroke	Ignition Timing	Max Power	Rated Speed (RPM)	Rated Torque		Emission Control System
	AP192FC	50-State	457	92/68.8	21BTDC	9.2kW	3600	28N.m	2500	EM
	AP188F	50-State	389	88/64	21BTDC	8kW	3600	23N.m	2500	EM
	SC390	50-State	389	88/64	21BTDC	8kW	3600	23N.m	2500	EM
	AP190F		420	90/66	21BTDC	8.4kW	3600	24.5N.m	2500	EM
(	SC420	50-State	420	90/66	21BTDC	8.4kW	3600	24.5N.m	2500	EM
	SV390	50-State	389	88/64	21±3BTDC	8.4kW	3600	24.5N.m	2500	EM
	SV420	50-State	420	90/66	21±3BTDC	8.8kW	3600	26N.m	2500	EM