# **Generator set data sheet**



Model: C640 D5
Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	EA_S_EX_24
Noise data sheet (open/enclosed):	TBD
Airflow data sheet:	TBD
Derate data sheet: (open/enclosed):	TBD
Transient data sheet:	TBD

	Standb	Standby			Prime	Prime		
Fuel consumption	kVA (k	kVA (kW)			kVA (k	W)		
Ratings	631 (50	631 (505)		575 (46	575 (460)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
g/kWh	219	198	195	205	221	201	199	204
L/hr	37	66	98	138	34	61	91	125

Engine	Standby rating	Prime rating	
Engine manufacturer	Cummins		
Engine model	KTAA19-G6		
Configuration	Cast iron, in-line, 6 cyl	inder	
Aspiration	Turbocharged and cha	arged after-cooled (air to air)	
Gross engine power output, kWm	570	520	
BMEP at set rated load, kPa	2403	2192	
Bore, mm	159		
Stroke, mm	159		
Rated speed, rpm	1500	1500	
Piston speed, m/s	7.9		
Compression ratio	13.9:1		
Lube oil capacity, L	50		
Overspeed limit, rpm	1725		
Regenerative power, kW	40		
Governor type	Electronic	Electronic	
Starting voltage	24		

# **Fuel flow**

Maximum fuel flow, L/hr	349
Maximum fuel inlet restriction, mm Hg	228.6
Maximum fuel inlet temperature, °C	N/A

Air	Standby rating	Primary rating
Combustion air, m³/min	42.18	47.38
Maximum air cleaner restriction, kPa	6.23	_

#### **Exhaust**

Exhaust gas flow at set rated load, m <sup>3</sup> /min	119.1	111.6
Exhaust gas temperature, °C	457	433
Maximum exhaust back pressure, kPa	10	

## Standard set-mounted radiator cooling

50*	
17	
80	
12.5	
23177	21144
0	
	17 80 12.5

 $<sup>^{\</sup>star}$  @0" Restriction, Ambient measured at the cooling air inlet to the set.

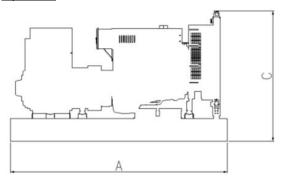
Weights*	Open	Enclosed
Unit dry weight kgs	4564	N/A
Unit wet weight kgs	4703	N/A

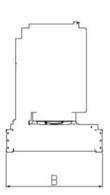
<sup>\*</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions	Length (A)	Width (B)	Height (C)
Standard open set dimensions, mm	3684	1454	2000
Enclosed set standard dimensions, mm	N/A	N/A	N/A

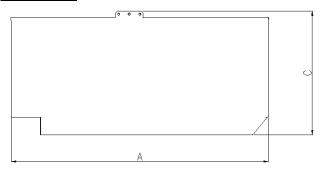
## **Genset outline**

#### Open set





## **Enclosed set**





Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

## **Alternator data**

Connection <sup>1</sup>	Temp rise °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	150/125 °C	S/P	HCI534E	380-440 V

## **Ratings definitions**

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

# Formulas for calculating full load currents:

Three phase output	Single phase output
kW x 1000	kW xSinglePhaseFactorx1000
Voltage x 1.73 x 0.8	Voltage

For more information contact your local Cummins distributor or visit power.cummins.com

