

# PowerBox 20X

## C1250 D2R 50Hz

## 60Hz

Fuel consumption	Standby				Prime				Standby				Prime			
	kVA (kW)				kVA (kW)				kVA (kW)				kVA (kW)			
Ratings	1400 (1120)				1256 (1005)				1588 (1270)				1400 (1120)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	21.9	40.4	58.4	77.4	20.1	36.7	52.6	68.9	27.5	45.8	65.4	87.2	23.5	41.5	58.6	76.9
L/hr	83	153	221	293	76	139	199	261	104	173	248	330	89	157	222	291

Engine	Standby				Prime				Standby				Prime			
Engine manufacturer	Cummins															
Engine model	KTA50G3															
Configuration	4-Cycle; 60° Vee; 16-Cylinder Diesel															
Aspiration	Turbocharged and Aftercooled															
Gross engine power output, kWm	1227				1097				1380				1220			
BMEP at set rated load, kPa	1951				1744				1827				1620			
Bore, mm	159															
Stroke, mm	159															
Rated speed, rpm	1500								1800							
Piston speed, m/s	7.9								9.5							
Compression ratio	13.9:1															
Lube oil capacity, L	151															
Overspeed limit, rpm	1800 ±150								2100 ±150							
Regenerative power, kWm	116								168							
Governor type	Electronic															
Starting voltage	24 Volts DC															

Fuel flow	
Maximum fuel flow, L/hr	625
Maximum fuel inlet restriction, mm Hg	203
Maximum fuel inlet temperature (°C)	60

Air	
Combustion air, m³/min	104.8
Maximum air cleaner restriction, mm H <sub>2</sub> O	635

Exhaust	Standby				Prime				Standby				Prime			
Exhaust gas flow at set rated load, m³/min	240.7				223.7				257.7				237.8			
Exhaust gas temperature, °C	525				520				475				460			
Maximum exhaust back pressure, mmHg	51															

### 50 Hz Rating

Ambient Temp	Continuous		Prime		Standby	
	kVA	kW	kVA	kW	kVA	kW
40 deg C	1005	804	1258	1005	1400	1120
45 deg C	1005	804	1258	1005	1400	1120
50 deg C	1005	804	1258	1005	1370	1097
55 deg C			1131	905	1260	1008

### 60 Hz Rating

Ambient Temp	Continuous		Prime		Standby	
	kVA	kW	kVA	kW	kVA	kW
40 deg C	1120	896	1400	1120	1588	1270
45 deg C	1120	896	1400	1120	1588	1270
50 deg C	1120	896	1400	1120	1588	1270
55 deg C			1357	1086	1536	1229

### RATING DEFINITIONS

Standby:	Limited Time Running:	Prime (Unlimited Running Time):	Base Load (Continuous):
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 is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power 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 in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.