

2306 SERIES

P400P3 – P450E3

OUTPUT RATINGS – 50Hz

Generating Set Model	P400P3	P450E3
380 – 415V	400.0 kVA	450.0 kVA
	320.0 kW	360.0 kW

Rating at 0.8 power factor

TECHNICAL DATA

Engine Make & Model:	Perkins 2306A – E14TAG3
Alternator Model:	LL6114D
Number of Cylinders/Alignment:	6 / In Line
Displacement: litres (cu.in)	14.6 (890.9)
Bore/Stroke: mm (in)	137 (5.4) / 165 (6.5)
Compression Ratio:	15:9:1
Induction:	Turbocharged AA Charge Cooled
Frequency:	50 Hz
Engine Speed:	1500 RPM
Gross Engine Power: kW (hp)	396 (531)
BMEP: kPa (psi)	2170 (314.8)
Piston Speed: m/sec (ft/sec)	8.3 (27.2)
Fuel Tank Capacity: litres (US gal)	791 (209)
Fuel Consumption, P400P3: 1/hr (USg/hr)	79.2 (20.9)
Fuel Consumption, P450E3: 1/hr (USg/hr)	87.9 (23.2)
Heat Rejected to Exhaust System: kW (Btu/min)	297 (16890)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	150 (8530)
Heat Radiation to Room: kW (Btu/min)	16 (910)
Exhaust Gas Temperature: °C (°F)	514 (957)
Radiator Cooling Air Flow: m ³ /min (cfm)*	444 (15680)
Combustion Air Flow: m ³ /min (cfm)	26 (918)
Exhaust Gas Flow: m ³ /min (cfm)	69.3 (2447)

*Contact us for power ratings at specific site conditions

DIMENSIONS AND WEIGHTS

Length: mm	Width: mm	Height: mm	Dry: kg	Wet: kg
3601	1110	2070	3453	3503

Dry = With Lube Oil Wet = With Lube Oil and Coolant

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22
Generating set pictured may include optional accessories

In line with the policy of continuous development, the manufacturer reserves the right to change specification without notice
P400P3 – P450E3/1006

Tel: +44 (0) 1924 455350
Fax: +44 (0) 1924 451001
sales@progress-group.com
www.progress-group.com



Authorised Service Dealer



RATINGS DEFINITIONS

Prime Power – Model P400P3

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Power – Model P450E3

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3)

Progress Group
Dale Works, Brewery Lane
Thornhill Lees
Dewsbury
West Yorkshire
WF12 9HU

Progress Group
Supplying Power Worldwide

