GPS650BS

650 kVA
ROUNDED CATALOGUE CLASS

Baudouin diesel generator | Acoustic canopied

Designed and manufactured in the United Kingdom

Representative GenPro enclosure; final build may vary.

SELECTED CONFIGURATION

ENGINE
Baudouin 8M21G660/5

ALTERNATOR
Stamford HCI544E1

ELECTRICAL OUTPUT
400 V | 3-phase | 50 Hz

PRIME POWER / PRP
591 kVA 473 kW

STANDBY POWER / ESP
647 kVA 518 kW

Ratings shown at 400 V, 3-phase, 50 Hz. The GPS model number is a rounded class; use the exact ratings for selection.

PUBLISHED ELECTRICAL RATINGS

Voltage (V)	Connection	ESP (kVA)	ESP (kW)	PRP (kVA)	PRP (kW)
190	PS	646	517	590	472
200	PS	647	518	591	473
208	PS	649	519	591	473
220	PS	650	520	593	474
220	SD	646	517	590	472
230	SD	647	518	591	473
240	SD	649	519	591	473
254	SD	650	520	593	474
380	SS	646	517	590	472
400	SS	647	518	591	473
415	SS	649	519	591	473
440	SS	650	520	593	474

PRP = prime power. ESP = emergency standby power. Values apply to the selected engine and alternator above. Connection codes follow the reference specification and must be confirmed before installation.

Technical specification

GPS650BS | Baudouin 8M21G660/5 | Acoustic canopied

ENGINE

Manufacturer	Baudouin
Model	8M21G660/5
Aspiration	Turbocharged
Combustion	Direct Injection
Cycle	4 Stroke
Governor	ECU
Cylinders	8
Arrangement	At Vee
Displacement	16.72L
Bore	127mm
Stroke	165mm
Compression ratio	15:1
Cooling	Liquid Cooled
Coolant capacity	101L
Oil capacity	45L

ALTERNATOR

Manufacturer	Stamford
Model	HCI544E1
Type	Brushless
Phases	3
Bearings	1
Poles	4
Leads	12
AVR	AS440
Voltage regulation	1%
Insulation class	H
Excitation	Self Excited
Winding	311
Harmonic content	<5.00%
Short circuit	>300%

REFERENCE FUEL CONSUMPTION

50% LOAD	75% LOAD	100% LOAD	110% LOAD
64.7 L/h	95.4 L/h	124.2 L/h	140.7 L/h

Reference figures vary with operating conditions and the confirmed duty.

INSTALLATION INFORMATION

L x W x H (mm)	REFERENCE WEIGHT	FUEL TANK
4908 x 2164 x 2658	6197.05 kg	1120 L

Reference frame 5100E (UK/EU). Drawing, weights and tank capacity are subject to the ordered build.

OTHER CONFIGURATIONS IN THIS CATALOGUE CLASS

Engine	Alternator	V / phase	ESP kVA	PRP kVA
8M21G660/5	Stamford S5L1D-E41	400 / 3	647	591
8M21G660/5	Leroy Somer TAL0473E	400 / 3	649	591

Engineering data above apply only to the selected configuration on page 1.

Final enclosure, controls, protection, acoustics and emissions suitability must be specified for the project. This sheet is a configuration guide, not an installation drawing.
GenPro technical specification | Reviewed 2026-10-12