

Application Data

Alternator Specifications		Engine Mechanical Specifications	
Manufacturer	Newage Stamford	Manufacturer	Perkins
Type	4-pole, rotating field	Engine model	1106D E66TAG3
Exciter type	Brushless, self excited. (PMG option)	Engine type	4-cycle, Turbocharged, Air to Air Aftercooled
Leads: quantity, type	12, reconnectable	Cylinder arrangement	6 in line
Voltage regulator	Solid state, volts/Hz and excitation overload protection	EPA Certification :	Tier 3
Insulation:		Displacement, L (cu. in.)	6.6 (403)
Material.....	Class H	Bore and stroke, mm (in.)	105 x 127 (4.1 x 5.0)
Temperature rise.....	150° C , standby	Compression ratio	16.3 : 1
Bearing: quantity, type	Single bearing sealed	Piston speed, m/min. (ft./min.)	457.2 (1,500)
Coupling	Flexible disc	Main bearings: quantity, type	7, replaceable insert
Amortisseur Windings	Full	Rated rpm	1,800
Voltage regulation, no-load to full load	± 1.0% (with PMG) ± 1.5% (with Self Excited)	Max. power at rated rpm, kWm (BHP)	171.3 (229.7)
Unbalanced load capability	100% of rated standby current	BMEP, gross, psi (Bar)	251.1 (17.3)
Load acceptance	Per ISO - 8528	Overall thermal efficiency	37%
Peak motor starting kVA:	(30% dip)	Exhaust Gas Flow, m ³ /min (cfm)	31.5 (1,112.4)
480 V	self-excited series 4 - 530 kVA	Exhaust gas temperature °C (°F)	625 (1,157)
480 V	PMG series. 3 - 680 kVA		
Engine Electrical Specifications		Frequency regulation, no-load to full load	0.25%
Engine Electrical System (24 Volt) 60 Hz		Governor: Type:	Electronic
Battery charging alternator:		Make:	Perkins
Ground (negative/positive).	Negative	Standard:	ISO 8528-S, Class G3
Volts (DC).....	12V	Frequency regulation, steady state	±0.5%
Ampere rating.....	100A	Frequency	Fixed
Starter motor rated voltage (DC)	12V	Air cleaner type	Dry
Starter motor rated kW:	3.0 Kw		
Battery CCA rating:	TBA		
Battery & qty, AH rating:	TBA		
Battery Voltage (DC)	12V		
Remote Radiator System		Fuel Consumption 60 Hz	
Exhaust manifold type		Diesel gal/hr (L/hr)	Standby Rating
Connection sizes:		100%	11.93 (45.2)
Water inlet ID hose, mm (in)		75%	9.68 (36.6)
Water outlet ID hose, mm (in)		50%	7.26 (27.5)
Charge air cooling (CAC)	Not Available	25%	4.48 (17.0)
Water inlet ID hose, mm (in)		Diesel gal/hr (L/hr)	Prime Power Rating
Water outlet ID hose, mm (in)		100%	11.05 (41.8)
Static head allowable above engine, ft.H ₂ O (kPa)		75%	9.00 (34.1)
Maximum CAC restriction H ₂ O in.		50%	6.73 (25.5)
Contact us for special cooling options		25%	4.25 (16.1)

