



BOBIPOWER CHART

TECHNICAL SPECIFICATIONS OF GENERATING SETS WITH VOLVO ENGINES

TYPE OF GENERATING SET	VO.85	VO.100	VO.130	VO.150	VO.185	VO.200
PRIME POWER AT 50 HZ						
Type of engine	TD 520GE	TAD 520 GE	TD 720 GE	TAD 720 GE	TAD 721 GE	TAD 722 GE
Net Prime power at 1500 rpm (kW/HP) (1)	75 / 102	87,6 / 119	112,8 / 153	131,2 / 179,2	162 / 220	179 / 243
Number of cylinders / engine form (2)	4 L	4 L	6 L	6 L	6 L	6 L
Type of aspiration (3)	T	TA	T	TA	TA	TA
Bore (mm)	108	108	108	108	108	108
Stroke (mm)	130	130	130	130	130	130
Swept volume (Capacity in l.)	4,76	4,76	7,15	7,15	7,15	7,15
Mean piston speed (m/sec)	6,5	6,5	6,5	6,5	6,5	6,5
Compression ratio	17,5:1	17,5:1	17,5:1	17,5:1	18,1:1	18,1:1
B.M.E.P. (kPa)	1310	1580	1309	1566	1857	2047
Specific fuel consumption at 4/4 load (gr/kWh)	213	206	211	197	204	205
Alternator output at 0,8 PF (kVA)	85	100	130	150	185	200
Nominal 3 phase current (A) at 380/400 V 0,8PF	129 / 122	152 / 144	197 / 187	228 / 216	281 / 267	304 / 289
Sustained short circuit current (A)	387	456	593	684	844	912
Max. capacity of electrical motor (kW) DOL (4) Starting $I_p = 7 \times I_n / \Delta U$ max. 25 %	14,8	14,9	24	28,9	24,4	24,4
Max. capacity of electrical motor (kW) Star-Delta starting $I_p = 3 \times I_n / \Delta U$ max. 25 %	34,5	34,7	56	67,3	57	57
Alternator efficiency at 4/4 load (%)	91,6	91,1	92,9	93,4	92,3	92,3
Generating set fuel consumption (5)						
at 4/4 load (l/h)	19,4	22,7	29,0	32,4	39,8	44,1
at 3/4 load (l/h)	14,1	17,0	21,4	24,4	29,8	32,7
at 2/4 load (l/h)	9,7	11,7	14,5	16,8	20,2	22,0
at 1/4 load (l/h)	-	-	-	-	-	-
Stand-by power at 50Hz (kVA)	93,5	110	143	165	203	220

- (1) Refers to net power available from engine =
Gross engine power – power absorbed by fan
and battery charging alternator (overload
capacity 10 % during 1 hour per 12 hours
operation)
- (2) L : in line - V: in V
- (3) N = Natural aspirated T= turbo charged
TA = turbo charged after cooled
TTA = Series turbo charged and after cooled
- (4) DOL = Direct On Line
- (5) Density of fuel : 0,85 kg/lit.

PRIME POWER ISO 8528 : for continuous operation
under variable load for an unlimited number of hours.
Overload capacity 5 % for 1 h/12h.

STAND-BY POWER : for operation under normal
varying load factors during a power outage, not over
load able. Not for applications designed to require
more than 300 h/year service.

Rating codes: ISO 3046, BS 5514, DIN 6280, ISO 8528



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