



DATA SHEET

Prime Power
Diesel Generators

DGP



Dayliff DGP Perkins powered generators are robust, high quality units designed for continuous duty in a wide range of power supply applications. All sets offer the following features:-

- Powered by dependable and efficient Perkins water cooled diesel engines.
- Close coupled at 1500rpm to a brushless single bearing high efficiency alternator with solid state AVR regulation.
- Base frame mounted on anti-vibration mounts and including a high capacity base mounted fuel tank for extended operation time.
- Powder coated sound and weather proof canopies with residential silencer for extremely low noise operation.
- Integral DSE digital control module that provides selectable readout of electrical voltage, phase current, output frequency and battery voltage and engine speed, hours run, oil pressure and coolant temperature. Remote monitoring is available as an option.
- Automatic shut down protection in the event of low engine oil pressure, high engine temperature and over and under speed with warning indicators provided for each condition.
- Digital automatic mains failure provision for starting the generator. An additional automatic transfer switch is also required for mains/generator power transfer.

Dayliff Perkins diesel generators are reliable economical and high specification products that are the ideal solution for all continuous duty and standby power generating requirements.

TECHNICAL DATA

GENERATOR MODEL		DGP07	DGP12	DGP16	DGP24	DGP36	DGP48	DGP64	DGP80	DGP108	
Power Output Prime/Standby	kVA	9/10	15/16.5	20/22	30/33	45/50	60/66	80/88	100/110	135/150	
	kW	7/8	12/13.2	16/18	24/26	36/40	48/52.8	64/70.4	80/88	108/120	
Engine Data	Perkins Model	403A-11G1	403A-15G2	404A-22G1	1103A-33G	1103A-33TG1	1103A-33TG2	1104A-44TG2	1104C-44TAG2	1106A-70TG1	
	Power @ 1500rpm (kW)	9	14	19	29	42	55	73	94	123	
	Aspiration	Natural				Turbocharged					
	No. of cylinders	3	3	4		3			4	6	
	Displacement (L)	1.1	1.5	2.2		3.3			4.4	7	
	Fuel Consumption (litres/hr)	75% load	2	3.1	4	5	8	10	14	17	23
100% load		3	4	5.3	7	11	14	19	236	30	
Alternator Data	Alternator Type	Self excited 4 pole (1500rpm) single bearing, brushless									
	Output Voltage	3x415V									
	Voltage Regulation	AVR±0.5% with 4% engine governing									
	Insulation Class	H									
	Protection Rating	IP23									
*Dimensions & Weights	Length, A (mm)	1910/1800		1910/2000	2220/2150	2220/2300		2300/2600	2770/2600	3520/3200	
	Width, B (mm)	860/900				970/1100			1110		
	Height, C (mm)	1270/1180				1490/1240			1590/1290	1590/1370	1870/1470
	Fuel Tank Size(L)	51/100		51/70	85/100	85/120		110/160	110/170	260/230	
	Dry Weight (kg)	740/670	750	820/850	1080/1120	1250/1270	1340/1290	1440/1520	1630/1620	2300/2100	

GENERATOR MODEL		DGP120	DGP144	DGP160	DGP200	DGP240	DGP320	DGP400	DGP600	DGP800
Power Output Prime/Standby	kVA	150/165	180/200	200/220	250/275	300/330	400/450	500/550	750/825	1000/1100
	kW	120/132	144/160	160/176	200/220	240/264	320/360	400/440	600/660	800/880
Engine Data	Perkins Model	1106A-70TAG2	1106A-70TAG3	1106A-70TAG4	1206A-E70TAG2	1606A-E93TAG5	2206A-E13TAG3	2506A-E15TAG2	4006-23TAG2A	4008-TAG2A
	Power @ 1500rpm (kW)	136	162	179	236	281	368	451	658	900
	Aspiration	Turbocharged								
	No. of cylinders	6								
	Displacement (L)	7				8.8	12.5	15.2	22.9	30.6
	Fuel Consumption (litres/hr)	75% load	25	32	35	42	48	62	76	122
100% load		33	42	46	56	65	81	100	161	213
Alternator Data	Alternator Type	Self excited 4 pole (1500rpm) single bearing, brushless								
	Output Voltage	3x415V								
	Voltage Regulation	AVR±1.0% with 4% engine governing								
	Insulation Class	H								
	Protection Rating	IP23								
*Dimensions & Weights	Length, A (mm)	3520/3200	3900/3200		4700/3800	4700/4200	4900/4200	5190/4800	6000/5800	12000/5800
	Width, B (mm)	1110			1430/1400	1630/1500		1630/2000	2320/2150	2320/2250
	Height, C (mm)	1870/1800			2020/2100	2020/2200	2190/2200	2190/2430	2600/2540	2900/2540
	Fuel Tank Size (L)	260/400			460/670	505/720	538/730	680/1000	NA/1000	
	Dry Weight (kg)	2350/2250	2310/2340	2360/2390	3730/3750	3800/4200	4770/4740	5060/6710	8830/8050	11550/9300

*NOTE: Dimensions & Weights: Jubaili/Yanan

DERATING: Given outputs are sea level ratings. Sets should be derated at 1% for every 100m higher than 100m above sea level, and 2% for every 5°C temperature above 20°C for naturally aspirated engines. For turbo charged engines, refer to supplier.

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