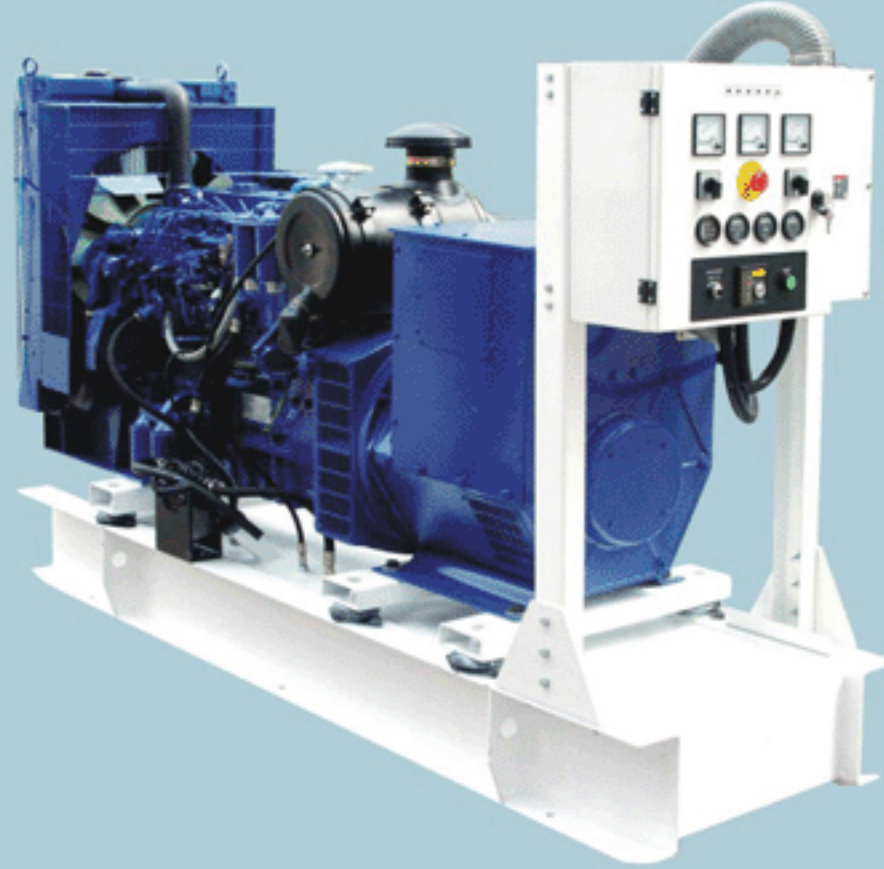


# SUPERWATT Perkins

**Diesel Generators Powered by**

## PERKINS RANGE OF STANDARD GENERATOR SETS SP68 - SP108



**STAMFORD**  
power generation

- Voltage: 400V/230V
- Frequency: 50Hz
- Power factor: 0.8
- Phase: 3P4W

### MAIN SPECIFICATIONS OF GENERATOR SETS

GENSET MODEL	Continuous model	SP68	SP72	SP80	SP91	SP108
	Standby model	SP75S	SP80S	SP88S	SP100S	SP120S
Continuous output (kW/kVA)		68/85	72/90	80/100	91/114	108/135
Standby output (kW/kVA)		75/94	80/100	88/110	100/125	120/150

#### Rating Definitions

##### Continuous Power Model SP with no Suffix

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 SP with Suffix (S)

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 ISO8528-3) at 27°C.

### TECHNICAL DATA

DIESEL ENGINE MODEL	1006TG1A	1006TG1A	1006TG2A	1006TAG	1006TAG
Engine Characters	Water-cooled, in line, 6 cylinders, 4-cycle, direct injection, Wet cylinder liner, 1500rpm				
Constant Output(kW)	86.3		94.4		128.4
Standby Output(kW)	94.4		103.8		141
Aspiration	Turbocharged		Turbocharged	Turbocharged air-to-air charge cooled	
Bore(mm) x Stroke(mm)	100x127		100x127	100x127	
Cubic Capacity (Liters)	5.99		5.99	5.99	
Piston Speed(m/s)	6.35		6.35	6.35	
Compression Ratio	16:1		16:1	17:1	
Stability bandwidth	≤ ±0.8%		≤ ±0.8%	≤ ±0.25%	
Steady governing rate	≤5%		≤5%	≤1%	
Acoustic Pressure	≤92.1dBA(At full load,1m distance)		≤94.3dBA	≤94.9dBA	
Exhaust Temperature:°C	545		550	571	
Exhaust Back PRESSURE	6KPa		6KPa	6KPa	
Air Induction System	Dry element type with back pressure warning indication				
Lube Temperature / Capacity	125°C/16.1L(Max.)			125°C/19L(Max.)	
BMEP: kPA (prime power)	1283		1404	1964	
Heat Rejection to Exhaust	59.1 kW/min		66.5 kW/min	115 kW/min	
Heat Rejection to Cooling	56 kW/min		63 kW/min	65.5 kW/min	
Cooling System Volume	27.7L		27.7L	37.2L	
Cooling Air Flow	135 m³/min		135 m³/min	154 m³/min	
Combustion Air Flow	5.45 m³/min		5.74 m³/min	8.38m³/min	
Exhaust Gas Flow	15.56 m³/min		16.24 m³/min	24.14 m³/min	

ALTERNATOR MODEL	UCI224G	UCI274C	UCI274C	UCI274D	UCI274E
Continuous Output(kW/kVA)	68/85	80/100	80/100	91/114	112/140
Power Efficiency	90.2%	90.4%	90.4%	90.8%	91.7%
Voltage Regulation	±1.0% with 4% engine governing				
Waveform Distortion	No load <1.5% and non-distorting balanced linear load <5%				
THF / TIF	<2% / <50				

### DIMENSIONS AND WEIGHTS

Genset Cont. MODEL	SP68	SP72	SP80	SP91	SP108
Length: mm	2480	2480	2480	2580	2580
Width: mm	710	710	710	800	800
Height: mm	1480	1480	1480	1480	1480
Net Weight: kg	1440	1490	1500	1520	1600