

Turbo-Generator Packages

Generator

Model No.	BW-CG-50	BW-CG-60	BW-CG-135	Unit
Power	50	60	135	MW
Voltage	10.5	10.5	13.8	kV
Current	3437	4124	7383	A
Rotation	3000	3000	3000	rpm
Power Factor	0.8	0.8	0.85	
Frequency	50	50	50	Hz
Efficiency	98.1	98.2	98.7	%

Exciter

Model No.	BW-EX-50	BW-EX-60	BW-EX-135	Unit
Power	193	218	420	kW
Voltage	260	260	435	V
Weight	1512	1512	2600	kg

Cooler

Model No.	BW-CO-50	BW-CO-60	BW-CO-135	Unit
Cooling	1240	1240	2000	kW
Cooling Flow	21	21	41	m ³ /s

Note:

- (1) The rotational direction of all turbines is clockwise viewed downstream.
- (2) The above data represent the maximum values of the specification of the machine.
- (3) The vendor reserves the right to make changes to the specifications in order to improve the products.



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The Turbo-Generator Package consists of a generator, an exciter and a cooler as the packaged operating unit. These 3-phase synchronous turbo-generator packages match with their respective steam turbine units in power. For example, the model number BW-CG-50 package (50 MW) would be used in conjunction with the model number SC-RT-50 steam turbine (50 MW) for a 50 MW power plant.

The cooling method for the equipment within the package is the closed-loop air-cooling type. The rotor is cooled by internal air flow. The air cooler is located under the generator. The excitation method is the AC brushless exciter with permanent pilot exciter type. The generator is equipped with high precision digital automatic voltage regulator (AVR).