

Power Conditioning Systems GridGate



PILLER
Power Systems

Piller Power Conditioning Systems with Flywheels or Batteries offer a variety of services to improve the security, resilience and stability of local power plants and microgrids. They can be operated either independently or interconnected with the utility grid and are available in a range of unit sizes that may be paralleled to suit.

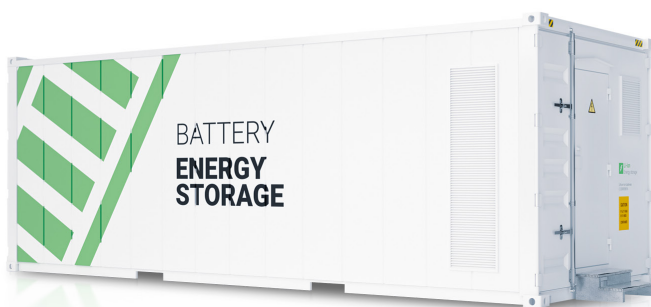
GridStab systems offer core features for energy storage and stabilisation with GridGate systems adding grid isolation and grid short-circuit ride-through. Both solutions are ideal for use inside hybrid power systems where the intermittency and limited dynamic performance of the inverter-based renewable energy sources creates the need for countermeasures.

Bi-directional energy storage makes these systems suitable for stabilising virtually all types of load or supply fluctuation, including stabilising frequency in island power system operation and for the import or export of power for commercial benefit.

Grid systems are also available with directly integrated engines, avoiding the requirement for the local network to utilise separate energy storage and engine generators thereby saving costs, reducing complexity and improving network characteristics.

GRIDGATE BENEFITS

- Voltage stabilization / VAR compensation
- Frequency stabilisation
- SCR enhancement
- Grid isolation
- No-break ride-through
- Natural inertia
- Microgrid-forming
- Battery and Flywheel options
- Unit ratings to 3600kVA



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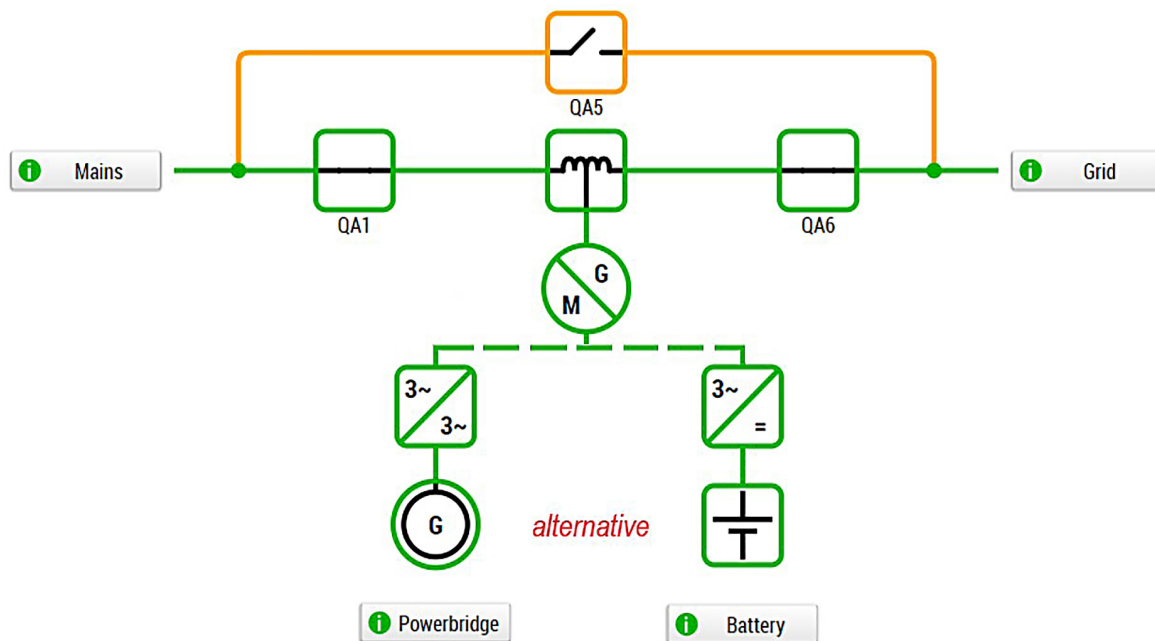
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GRIDGATE (50Hz)

type	kVA	kW	V	Hz	storage	im-/export power	frequency support	voltage support
1000	1100	1000	400	50	Battery	+/- 1000 kW	+/- 1000 kW	660 kvar
1000	1100	1000	400	50	PB21	+/- 1000 kW	+/- 1000 kW	660 kvar
2250	2500	2250	400	50	2xPB21	+/- 2250 kW	+/- 2250 kW	1500 kvar
2250	2500	2250	MV	50	2xPB21	+/- 2250 kW	+/- 2250 kW	1500 kvar
2700	3000	2700	MV	50	2xPB21	+/- 2700 kW	+/- 2700 kW	1800 kvar
3240	3600	3240	MV	50	Batttery	+/- 3240 kW	+/- 3240 kW	2160 kvar

GRIDGATE (60Hz)

type	kVA	kW	V	Hz	storage	im-/export power	frequency support	voltage support
1200	1300	1200	480	60	Battery	+/- 1200 kW	+/- 1200 kW	780 kvar
1200	1300	1200	480	60	PB21	+/- 1200 kW	+/- 1200 kW	780 kvar
2700	3000	2700	480	60	2xPB21	+/- 2700 kW	+/- 2700 kW	1800 kvar
2700	3000	2700	MV	60	2xPB21	+/- 2700 kW	+/- 2700 kW	1800 kvar
3240	3600	3240	MV	60	Battery	+/- 3240 kW	+/- 3240 kW	2160 kvar



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