EST 1999

Powerline

POWER DISTRIBUTION TEMPERATURE CONTROL

HYBRID POWER GENERATORS

Working with you to make your event happen

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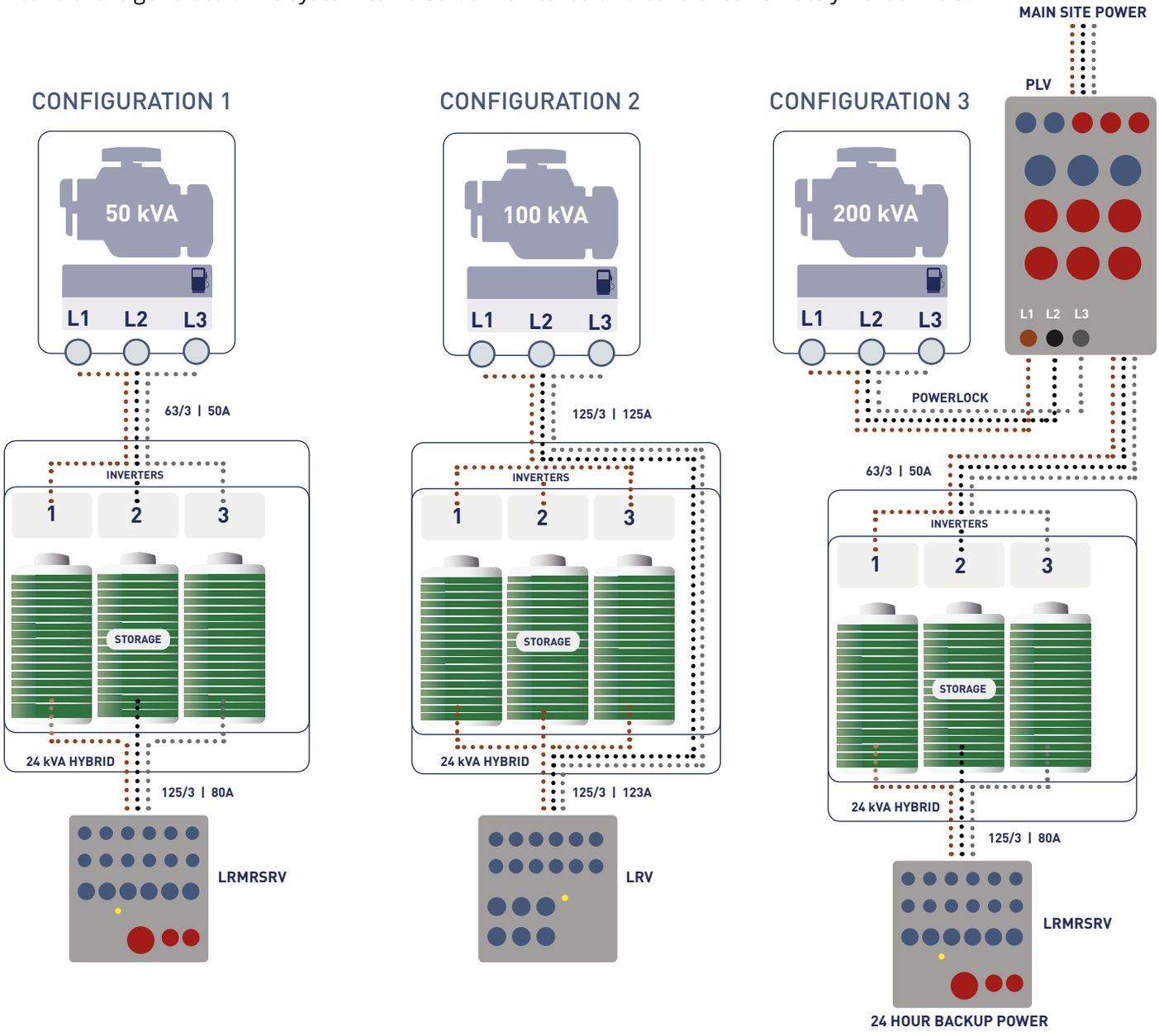
WHY USE A HYBRID GENERATOR?

A Hybrid power generator is a unit containing batteries and an inverter that can produce power at mains voltage. It would generally be connected to a diesel generator that is run for part of the day, with the hybrid supplying the load when the generator is not running.

The most efficient "load profile" for a hybrid power system leading to the largest cost-savings, is an asymmetric load; a fairly large load for a portion of the day, and a smaller load for the remainder of the day.

Essentially the cost savings are made by virtue of the fact that diesel generators are only between 20-30% efficient at converting fuel into electricity (the rest goes to heat, noise, frictional and electrical losses). So if you can double the load on generator, but only run it for half of the time, you have generated the same amount of electricity but you have halved the amount of 'wasted' fuel.

The inverter in the hybrid unit is the brain of the system and will monitor loads and control the generator. The system can also be monitored and controlled remotely via GSM/3G.



REDUCE COST | SAVE FUEL | REDUCE CO^2 & NOx EMISSIONS

8 kVA Hybrid Power Generator V8

Hybrid Size (kVA)	8	
Incoming Connections	63/1	
Outgoing Connection	63/1 and Busbar	
CB Output	63/1	
Frequency (Hz) (Configurable)	50/60	
Phases	Single Phase	
Earth Leakage Protection	Variable	
Continuous Power @ 25 deg	7 kVA	
Standby Power (30 mins) kVA	8	
Inrush Power (30 Secs) kVA	21	
Maximum Current hybrid only A/Phase	30	
Maximum Current passthrough on A/Phase	50	
Maximum output Current passthrough + hybrid A/Phase	80	
Maximum Current hybrid only (Single Phase) A	30	
Maximum Current passthrough (Single Phase) A	50	
Battery Capacity kW/h	25	
Noise Level @ 1 Meter and 7 Metres	1m	7m
	Trace	0 dBA
Dimensions - Length (mm)	2180	
Width (mm)	1100	
Height (mm)	1400	
Generator Autostart Terminals	Binding posts	
Fork Truck Pockets	✓	
GSM telemetry & control	✓	
Single Point Lift	✓	
Standby Power	8	
Weight (kg)	1300	
ORDER CODE	**V8**	

24 kVA Hybrid Power Generator V24

Hybrid Size (kVA)	24	
Incoming Connections	125/3	
Outgoing Connection	125/3 and Busbar	
CB Output	125/3	
Frequency (Hz) (Configurable)	50/60	
Phases	Single Phase or Three Phase	
Earth Leakage Protection	Variable	
Continuous Power @ 25 deg	21 kVA	
Standby Power (30 mins) kVA	24	
Inrush Power (30 Secs) KVA	63	
Maximum Current hybrid only A/Phase	30	
Maximum Current passthrough on A/Phase	50	
Maximum output Current passthrough + hybrid A/Phase	80	
Maximum Current hybrid only (Single Phase) A	90	
Maximum Current passthrough (Single Phase) A	123	
Battery Capacity kW/h	65	
Noise Level @ 1 Meter and 7 Metres	1m	7m
	Trace	0 dBA
Dimensions - Length (mm)	2180	
Width (mm)	1180	
Height (mm)	1800	
Generator Autostart Terminals	Binding posts	
Fork Truck Pockets	✓	
GSM telemetry & control	✓	
Single Point Lift	✓	
Standby Power	24	
Weight (kg)	1800	
ORDER CODE	**V24**	