Base Power equipment description

BASE POWER BY POWERCO

Component details

A typical Base Power site has three pieces of equipment:

Equipment	Main components	Function	Specifications
Energy storage unit – ESU	Enclosure	Aluminium structural frame and powder-coated cladding house the main components. Lockable and safe to touch. Complies with relevant electrical and safety standards.	1850mm long (l) x 750mm high (h) x 1400mm wide (w).
	Interactive inverter(s)	Efficiently manages power flowing between the PV, batteries, generator and customer load.	6kVA per inverter.
	MPPT solar charges	Efficiently manages the solar energy harvested from the PV.	
	Switchgear	Provides protection and electrical isolation.	
	Communications	Internal communications between components, plus external communications (eg WiFi, electronic customer screen).	
Diesel generator – Genset (weight: 650kg)	Diesel motor	Caterpillar diesel engine – 3.7litre/hour at 75% load.	Noise: 75db at 1m at 75% load.
	Alternator		11kVA (typical size).
	Enclosure	Provides weather protection, noise mitigation and security.	1900l x 1300w x 1700h (mm).
	Slab	Earthquake restraint, and weed and vermin deterrent.	1000kg slab weight.

Photovoltaics – PV	PV panels	Harvest solar UV rays and convert to electricity.	1000 x 1600mm per 250 watt panel.
	Frame	Modular system supports and securely holds the panels.	6.4sqm per kW.
	Frame support	Provides connection between the frame and the earth.	
	Wiring	Electrically safe wiring path to the ESU.	