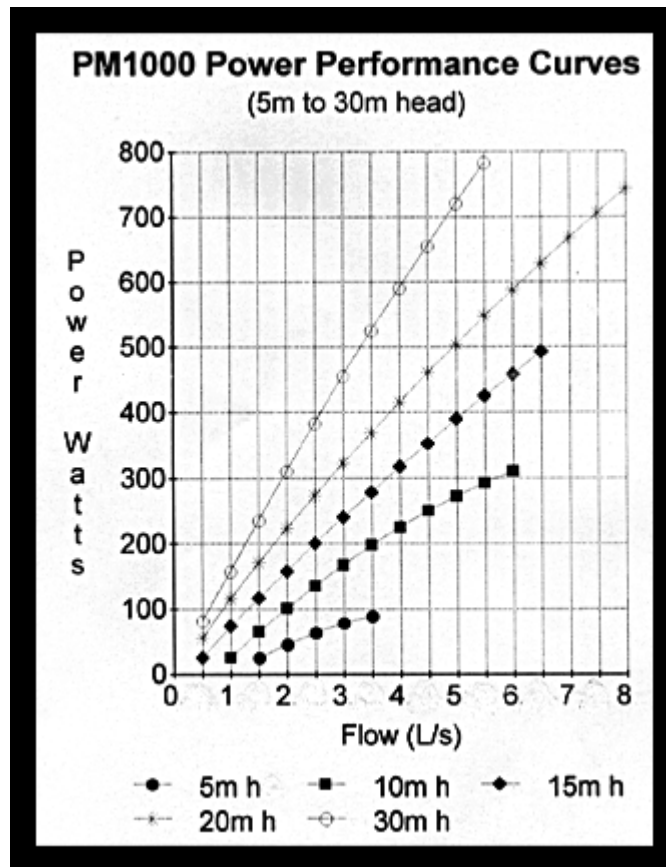


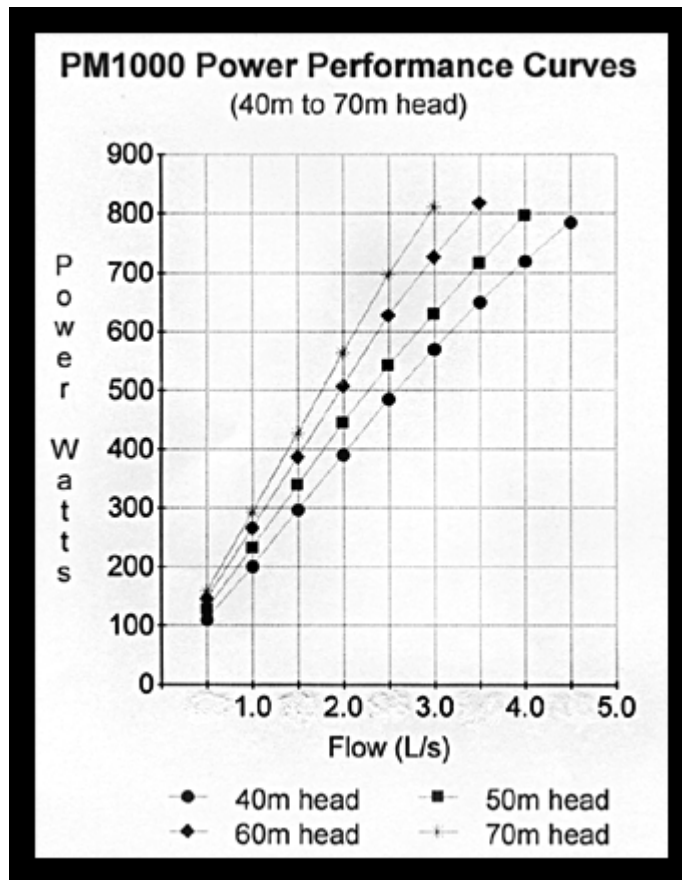
# Battery Charging Units

## Performance Curves



If having difficulty reading tables please print them out for a better result.

Data points indicated by symbols derived from tests conducted at Southern Hydro Ltd. balance of curves derived by extrapolation.



If having difficulty reading tables please print them out for a better result.

Data points indicated by symbols derived from tests conducted at Southern Hydro Ltd. Balance of curves derived by extrapolation.

# Battery Charging Units

## Specifications

<b>MODEL</b>	<b>PM1000</b>
Generator maximum output	750 W
<b>TURBINE</b>	
Runner	Platypus 316 Stainless Steel Impulse
Runner jet circle diameter (mm)	100
Minimum operating head(m)	5
Maximum operating head (m)	80
Minimum flow rate (l/sec)	0.5
Maximum flow rate (l/sec)	7.5
Turbine Casing	Marine grade Aluminum-powder coated
Standard nozzle type	Nylon conical x 1
Nozzle diameter range (mm)	10 to 24 @ 2 mm intervals
Inlet pipe connection	2 inch table D flange
<b>GENERATOR</b>	
Alternator	Permanent magnet brushless
Voltage	12, 24 & 48
Generator to turbine coupling	Direct
<b>SYSTEM CONTROL</b>	
Charge control regulator	Electronic Constant Voltage Taper
	Current B-SR50 or BX-SR50
Cubicle	Steel enclosure IP55 (Powder coated)
Voltage (V)	13 - 70
Voltage regulation	
(% of rated voltage)	+/- 1%
Power rating (W)	360 at 12V
	750 at 24 & 48V
Dump load elements	Resistive solid core (finned air cooled)
Number of elements	1 for 1 to 400 watts (B-SR50)
	2 for 401 to 750 watts (BX-SR50)
<b>SYSTEM MONITORING</b>	
Battery Charge Current	Analogue 0 to 30 Amp at 12 & 24V
	Analogue 0 to 15 Amp at 48V
Dump Load Current	Analogue 0 to 30 Amp at 12 & 24V

	Analogue 0 to 15 Amp at 48V
Battery Voltage	Analogue 0 to 15V at 12V
	Analogue 0 to 30V at 24V
	Analogue 40 to 60V at 48V
Battery Status	Light emitting diode (LED)
Pressure gauge	800 kPa (oil damped)
<b>SYSTEM PROTECTION</b>	
Over-current	Circuit breaker

<b>DIMENSIONS &amp; WEIGHTS</b>		
Item	PM1000	B-SR50 Governor
Size (mm) (LxDxH)	340x340x285	375x210x460
Weight (kg)	18	10.3
<b>OPTIONS</b>		
Discharge pit with base plate		Polypropylene pit & Galvanized steel
		base plate
Dimensions (mm)		565 L x 565 D x 320 H
Filter		
Electric solenoid valve		
Hot water element for gravity fed system		