

# DC Load Dump

## Water Heating Element [RGX-E16]

An off-grid wind or hydro turbine needs to be properly regulated to avoid overcharging of the lead-acid batteries. Voltage regulation is typically achieved by either stopping the turbine or by diverting (*dumping*) the power into a resistive load (*heater*).

Our Water Heating Element [RGX-E16] used as a resistive load has the following characteristics:

Water Heating Element Values	Nominal System Voltage		
	12V	24V	48V
Typical Volts (Maximum)	13.6V (15V)	27V (30V)	55V (60V)
Single (1.5 $\Omega$ )	9A (10A)	18A (20A)	36A (40A)
2 Parallel (0.75 $\Omega$ )	18A (20A)	36A (40A)	Do Not Use
2 Series (3 $\Omega$ )	Do Not Use	9A (10A)	18A (20A)

Held in with 4 bolts 45mm apart through corners of steel plate.



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