

# HIGH VOLTAGE CONTROLLER COMPARISON

19-Feb-11

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## Description

	<b>CURTIS</b>	<b>Evnetics</b>	<b>Evnetics</b>	<b>NetGain</b>	<b>NetGain</b>
Manufacturer	<b>1231C-8601</b>	<b>Soliton 1</b>	<b>Soliton Jr.</b>	<b>160/1000</b>	<b>360/1400</b>
Model No.	USA	USA	USA	USA	USA
Country of Manufacture	7	1	1	1	1
Lead Time to Supplier, weeks	\$1,495	\$2,900	\$2,095	\$1,900	\$4,100
Price	\$90	\$150	\$150	\$150	\$150
Input Device Price					

## Performance

Voltage, Range	96-144	8-340V	8-340V	24-160	24-360
Max Current, amps	500	1000	600	1000	1400
1 hr rating, amps	225	1000 Water	500 Water	300 Water	300 Water
Cooling	Air	Air or Water	Air or Water	Water	Water

## Features

Programmable	Manual	Yes	Yes	Yes	Yes
Acceleration Ramp	Yes	Yes	Yes	Yes	Yes
Max Current	Yes	Yes	Yes	Yes	Yes
Max Voltage	No	Yes	Yes	Yes	Yes
Min Voltage	No	Yes	Yes	Yes	Yes
Smooth Starts	Yes	Yes	Yes	Yes	Yes
Tachometer Input/ Output	No	Yes	Yes	Coming Soon	Coming Soon
Max Battery Current	No	Yes	Yes	Yes	Yes
Max RPM Limiting	No	Yes	Yes	Coming Soon	Coming Soon
Idle	No	Yes	Yes	Coming Soon	Coming Soon
Pre-Charge Management	No	Yes	Yes	Yes	Yes
Internal Main Contactor	No	Yes	Yes	No	No
Brake Input	No	Yes	Yes	Yes	Yes
Reverse Input	No	No	No	Yes	Yes
Upgrades through	No	Ethernet Port	Ethernet Port	CANBus	CANBus
Diagnostic Error Code	No			Yes	Yes
Input Signal	0-5K	0-5V, TPS	0-5V, TPS	TPS	TPS
	2 Wire	3 Wire	3 Wire	Hall Effect	Hall Effect
Operation	1.5/15KHZ	8/14 KHz	8/14 KHz	15.7kHz	15.7kHz

## Protection

Weatherproof Enclosure	Yes	Yes	Yes	Water Resistant	Water Resistant
Against Wiring Errors	No	Most	Most	Low Voltage	Low Voltage
Reverse Polarity		Yes	Yes	Yes	Yes
Over Voltage		Yes	Yes	No	No
Separation of Terminals	No	Yes	Yes	No	No
Waterproof auto connectors	No	No	No	Yes	Yes

## Efficiency

Voltage Drop at Max Current		1.5	1.5	1.6	1.8
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## **Physical**

Weight	19	32	21	16	16
Dimensions					
Width, inches	8.6	8	7.75	9	9
Length, Inches	12.2	19.83	13.75	10	10
Height, Inches	3.7	5.77	5.05	5	5

## **Options**

Cooling System	NA	NA	NA	\$300.00	\$300.00
Interface (Display)	NA	NA	NA	\$300.00	\$300.00