



Sockeye™ Specifications:

Power

9-36V

Processing

Processor: Freescale 56xx

Processor Speed: 264Mhz

RAM: 4MB

Flash: 4MB

Communication

4 - Bidirectional CAN Buses

1 - Ethernet Port (for use with included UI)

2 - RS-232 Ports

1 - RS-422 Port

Inputs

6 - High Frequency Analog Inputs

Sampled @ 10khz with 12bits

16 - Low Frequency Analog Inputs

Sampled @ 400hz with 12bits

16 - Flexible Analog inputs

Sampling @ 10k/400hz with 12 bits

16 - Digital Inputs

Inputs are 0-Vbatt with a 2.5V level threshold

2 - Water in Fuel Inputs

4 - RTD Inputs

4 - VR or Hall Effect Speed Inputs

2 - Knock Sensors

4 - Frequency Inputs

0-Vbatt with a 2.5V level threshold

Outputs

8 - Low Frequency Analog Outputs

24- Digital Outputs

Open Collector will Sink .5A Max

12 - PWM Outputs

Open Collector

1 - 20A, 2 - 12A, 9 - 2A

12 - High Current Outputs

Up to 40A @ 80 Volts

Nominal operation is 25A at 48 Volts

Programmable Current Control Settings
(independent across outputs)*

Reverser Current Capable

6 - Vbatt Drive Stages

12A Max @ Vbatt

Programmable Current Control Settings
(independent across outputs)

2 - Synthesized Timing Outputs

Software Programmable

½ Degree Resolution

Open Collector Outputs

6 - Ignition Outputs

Open Collector Outputs sink 10mA Max

*Each of the 12 high current outputs has independent timing control. However, the current settings for the high current outputs are applied to the outputs in pairs. In other words, there are six groups of current settings, and each group applies to two of the high current outputs.

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