

Competition Systems IGN1A Inductive Smart Coil

Brand: Competition Systems

Product Code: IGN1A

Availability: 7 Days

Weight: 0.25kg

Dimensions: 8.00cm x 8.00cm x 3.00cm

Price: \$165.00



Short Description

Based on the Mercury IGBT coil, this unit delivers over 100mj of spark energy with nearly 3ms of spark duration, rivalling the best CDI systems around.

Description

IGN1A IGBT Coils have a 19 amp IGBT ignitor built in and can be driven with a 5 volt logic level output. Normally, we use them for a distributorless ignition as a coil per plug application, however they can be fired sequentially or every crank revolution (wasted spark coil per plug). If used as a single coil with a distributor, you may need to run a bit less dwell to prevent heat buildup from being an issue. Maximum recommended duty cycle is 40%.

The coil dwell starts when a 5 volt signal is applied to pin A and the coil fires when the voltage drops to zero. The signal is similar to an LSx coil, although it does need a bit more current to trigger.

Specifications

Minimum voltage output (no load, at recommended dwell): 40,000 volts

Output energy: 103 mJ

Spark duration: 2.9 ms

Primary resistance: 0.5 ohms

Primary inductance: 4.8 mH

Secondary resistance: 8,500 ohms

Secondary inductance: 22.5 H

Turns ratio: 71.1

Maximum current: 19 amps

Maximum battery voltage: 17 volts

Nominal dwell: 3.0 ms

Maximum Continuous Duty Cycle: 40%

Wiring

Pin	Function	Wire Size
A	Ignition Signal	20-24AWG
B	Signal Ground	20-24AWG
C	Spark Wire Ground (Connect to Cylinder Head)	16-20AWG
D	Power Ground (VBATT GND)	16-20AWG
E	12V Power Supply (VBATT Key)	16-20AWG

Connector Housing: UTC12162825

Terminals: UTC12124075 (16-20AWG) or UTC12124076 (20-24AWG)

Care must be taken with power supply due to the high current these units can pull. Some OEM wiring may not be capable of maintaining this and we

recommend 16AWG M22759/32 wire for the most reliable solution.