Product Overview | Ignition Transformers

Ignition Transformers are used to create the high voltages required to generate a spark in industrial igniters. For UL classification, minimum secondary voltage for pilot ignition transformers is 6000 volts (6 kV). 4065 transformers operate with 120VAC on the primary, and 4066 transformers require 240VAC.

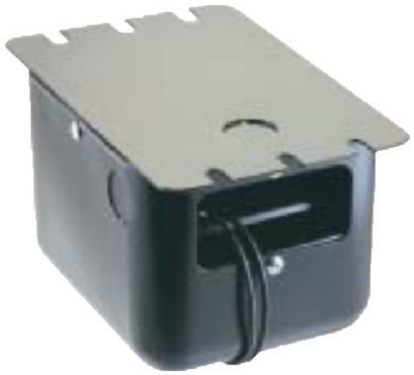
4065/4066 transformers are suitable for North American ignition systems using 10mm automotive type spark plugs in pilot tips and for most direct spark igniters in gas burners. Larger center electrode igniters may require 10,000 volt (10 kV) transformers, such as the 4065-6N1-10A.

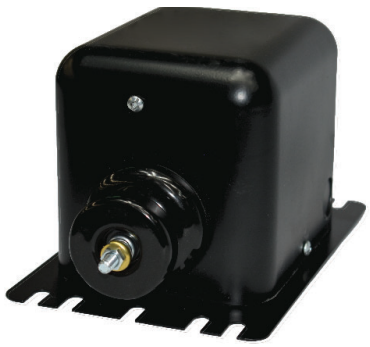
Most 4065/4066 transformers include 12" of lead wire and an internal junction compartment for the primary splice. The secondary connection has a recessed high voltage terminal in a ceramic insulator to minimize the hazard of accidental shocks. Transformer cases must be grounded to burner bodies through a metallic connection to complete the electrical circuit.

Avoid operating standard 4065/4066 transformers outside their maximum operating conditions of -22 to +104 °F (-30 to +40 °C) and 90% relative humidity. All units are rated for constant or intermittent duty. Standard transformer storage temperature limits are -40 to +176 °F (-40 to +80 °C)

A 4085 ignition cable is required to connect the transformer secondary terminal to a spark igniter. There are three types of secondary terminals on 4065/4066 transformers. The "standard" North American ignition transformer has a ¼" snap on terminal which does not require a tool or fastener to attach the ignition cable. The other two terminal connection styles have #10 and ¼" threaded connections that require ring connectors on the ignition cable and an included fastener to make the connection. Most transformers with the #10 threaded post come with a thumb screw nut to secure the ring connection.

4065/4066 ignition transformers are available pre-mounted in Nema type 4 or 7 enclosures. Custom engineered enclosures are also available. Additional options include high temperature versions, and center tap grounded transformers with dual secondary connections for dual electrode igniters.





PRODUCT DESIGNATION

40 _ _ - _ - _ - _ _

- **65** = 120 V Primary
- **66** = 240 V Primary
- **5** = 50 Hz Primary
- **6** = 60 Hz Primary
- **A** = 1 Pole
- **B** = 2 Pole
- **D** = 4 Pole
- **5** = 5000 V Secondary
- **6** = 6000 V Secondary
- **10** = 10000 V Secondary
- **1** = No Enclosure
- **4** = NEMA 4 Enclosure
- 7 = NEMA 7 Enclosure
- 4X = NEMA 4X Stainless Steel Enclosure
- 4XF = NEMA 4X Fiberglass Enclosure

* Note Some 4065 transformers can be used as 50 or 60 Hz applications