



**Product Specification Sheet**  
 Slim Plug-In Voltage Divider

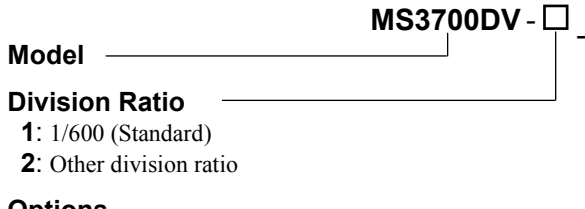
**Model: MS3700DV**

**MS3700**

**DESCRIPTION**

The MS3700DV is a slim plug-in voltage divider that divides high voltage direct current signals and provides a single output.

**ORDERING CODE**



**Model**

**Division Ratio**

- 1: 1/600 (Standard)
- 2: Other division ratio

**Options**

**No code:** None

**/Z:** Allowable input voltage: 1200V max.

**/X:** Special order

\* For non-standard options, ask MTT for availability.

**ORDERING INFORMATION**

To place an order, please use the ordering code format as shown above.  
 (e.g.) MS3700DV-1

**SPECIFICATIONS**

● **INPUT SECTION**

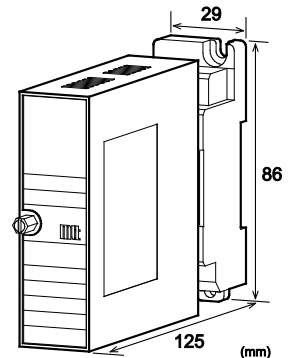
|                         |                                   |
|-------------------------|-----------------------------------|
| Input Resistance        | Approx. 1.2MΩ (Standard)          |
| Allowable Input Voltage | ±600V DC, continuous.             |
| Ratios Available        | 1/300 to 1/1000 (Standard: 1/600) |

● **OUTPUT SECTION**

|                   |                                |
|-------------------|--------------------------------|
| Output Resistance | Approx. 2kΩ (Standard)         |
| Output Voltage    | Input voltage × Division ratio |

● **PERFORMANCE**

|                       |  |
|-----------------------|--|
| Accuracy Rating       | Better than ±0.2% of span (at 25°C±5°C).   |
| Temperature Effect    | Better than ±0.05% of span per 10°C change in ambient.                           |
| Insulation Resistance | 100MΩ min. (@ 500V DC) between [input/output] and ground.                        |
| Dielectric Strength   | 2100V AC for 1 minute between [input/output] and ground. (Cutoff current: 0.5mA) |
| Operating Environment | Ambient temperature: -5 to 55°C<br>Humidity: 5 to 90% RH (non-condensing)        |
| Storage Temperature   | -10 to 60°C  |



● **PHYSICAL**

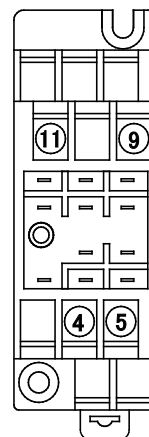
|                     |   |
|---------------------|---|
| Installation        | Wall/DIN rail mounting  |
| Wiring              | M3.5 screw terminal connection (with a power terminal block cover & drop-out prevention screws) |
| Screwing Torque     | 0.8 to 1.0 [Nm] * Recommended   |
| External Dimensions | W29 × H86 × D125mm (including screws and socket)  |
| Weight              | Main unit: 70g max.<br>Socket: 60g max.   |

● **MATERIALS**

|                              |   |
|------------------------------|---|
| Housing                      | ABS resin (UL 94V-0)                      |
| Terminal Block               | PBT resin (UL 94V-0)                      |
| Terminal Block Cover         | PC resin (UL 94V-2)                       |
| DIN Rail Stopper             | PP resin (UL 94HB)                        |
| Screw Terminal               | Nickel-plated steel                       |
| Contacts Material and Finish | Brass with 0.2μm gold plating             |
| Printed Circuit Board        | Glass fabric epoxy resin (FR-4: UL 94V-0) |
| Anti-Humidity Coating        | HumiSeal® 1A27NS (Polyurethane)           |

\* HumiSeal® is a registered trademark of Chase Corporation.

**TERMINAL ASSIGNMENT**



|   |            |
|---|------------|
| ④ | + OUTPUT 1 |
| ⑤ | - OUTPUT 1 |
| ⑨ | + INPUT    |
| ⑪ | - INPUT    |

**BLOCK DIAGRAM**

