

**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** \_\_\_\_\_ **MS3700DV** -

**Division Ratio** \_\_\_\_\_

1: 1/600 (Standard)  
2: Other division ratios

**Options** \_\_\_\_\_

- No code:** None  
**/Z:** Allowable input voltage: ±1200V max.  
**/H:** Polyurethane conformal coating  
**/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 max., continuous.
Ratios Available	1/300 to 1/1000 (Standard: 1/600)

● **OUTPUT SECTION**

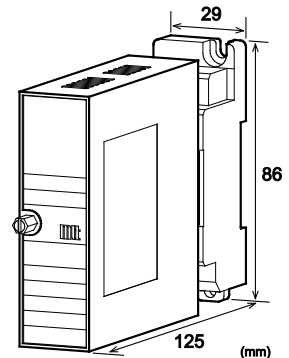
Output Resistance	Approx. 2kΩ (Standard)
Output Voltage	Input voltage × Division ratio

● **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 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-proof screws)
Screwing Torque	0.8 to 1.0 [Nm] * Recommended



External Dimensions	W29 × H86 × D125 mm (including the mounting screw and socket)
Weight	Main unit: 70g max. Socket: 60g max.

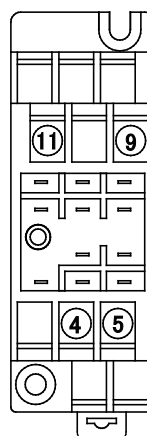
● **MATERIAL**

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)

● **STANDARDS CONFORMITY**

EC Directive	EMC Directive (2014/30/EU)
Conformity	EN61326-1:2013

**TERMINAL ASSIGNMENTS**



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

BLOCK DIAGRAM

