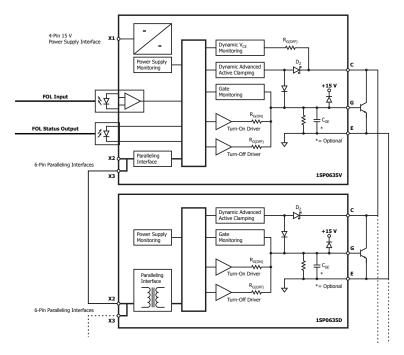




## Single-Channel Plug-and-Play Gate Driver for Blocking Voltages up to 3300 V



# **Applications**

- Railway main inverters
- Railroad power supplies
- High-voltage DC transmission systems
- Flexible AC transmission systems
- Medium-voltage drives
- · Industrial motor drives

#### **Certifications**

- Creepage and clearance according to IEC 60077-1
- UL compliant

#### **Product Details**

Parameter	Min	Typical	Max	Unit
Nominal supply voltage		15		V
Supply current 1SP0635x2Mx @ f <sub>IN</sub> = 0 Hz		120		mA
Per additional 1SP0635D2Sx @ f <sub>IN</sub> = 0 Hz		35		mA
Supply current, full load 1SP0635x2Mx			400	mA
Output power (1SP0635V2Mx or 1SP0635SMx)			3	W
Output power (1SP0635D2Sx)			2.6	W
Gate voltage		+15 / -10		V
Peak output current (gate current)	-35		+35	А
Switching frequency (f <sub>s</sub> ¹)	0		30	kHz
Duty cycle	0		100	%
Creepage distance primary-secondary	21			mm
Clearance distance primary-secondary	21			mm
Dielectric test voltage (3.3 kV versions)	6000			V <sub>RMS</sub>
Partial discharge extinction voltage (3.3 kV versions)	3630			V <sub>PEAK</sub>
Operating temperature	-40		+85	°C



## **Design Support**

Available Products 1SP0635 products list (www.power.com/1SP0635)



 $<sup>1\,\</sup>text{Maximum switching frequency depends on the IGBT gate charge}. See \,\text{data sheet for actual value of specific driver}.$