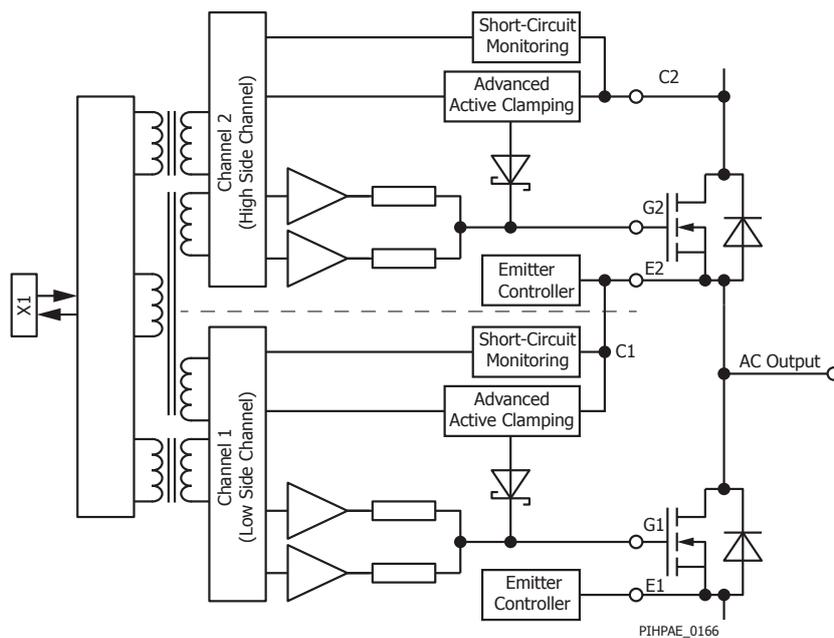


# SCALE™ -2 Plug-and-Play Gate Driver 2SP0230T

- +20 V / -5 V (regulated) SiC MOSFET gate driver
- 1.3 W output power per channel
- Overvoltage protection using advanced active clamping (AAC)
- SiC MOSFET short-circuit protection in  $\leq 2 \mu\text{s}$
- Up to 92 kHz switching frequency
- IGBT option available

## Dual-Channel Plug-and-Play Gate Driver for Blocking Voltages up to 1700 V



## Applications

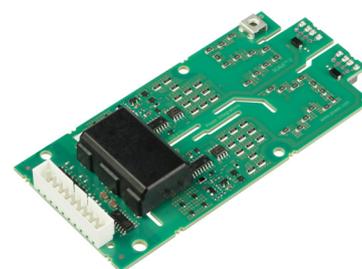
- Offboard EV charger
- Industrial motor drives
- Railway auxiliary inverters
- Induction heating
- Photovoltaic inverters
- Uninterruptible power supplies (UPS)

## Certifications

- Reinforced isolation according to IEC 60077-1

## Product Details

Parameter	Min	Typical	Max	Unit
Nominal supply voltage		15		V
Supply current @ $f_{in} = 0$ Hz		59		mA
Supply current, full load		281		mA
Output power per channel			1.3	W
Gate voltage		+20 / -5		V
Peak output current (gate current)	-30		+30	A
Switching frequency ( $f_s$ )	0		92	kHz
SC response time		1.8		$\mu$ s
Creepage distance primary-secondary	12.0			mm
Clearance distance primary-secondary	10.5			mm
Dielectric test voltage (1700 V version)	6813			$V_{RMS}$
Partial discharge extinction voltage (1700 V version)	2201			$V_{PEAK}$
Operating temperature	-40		+85	$^{\circ}$ C



## Design Support

Available Products      2SP0230T products list ([www.power.com/2SP0230T](http://www.power.com/2SP0230T))