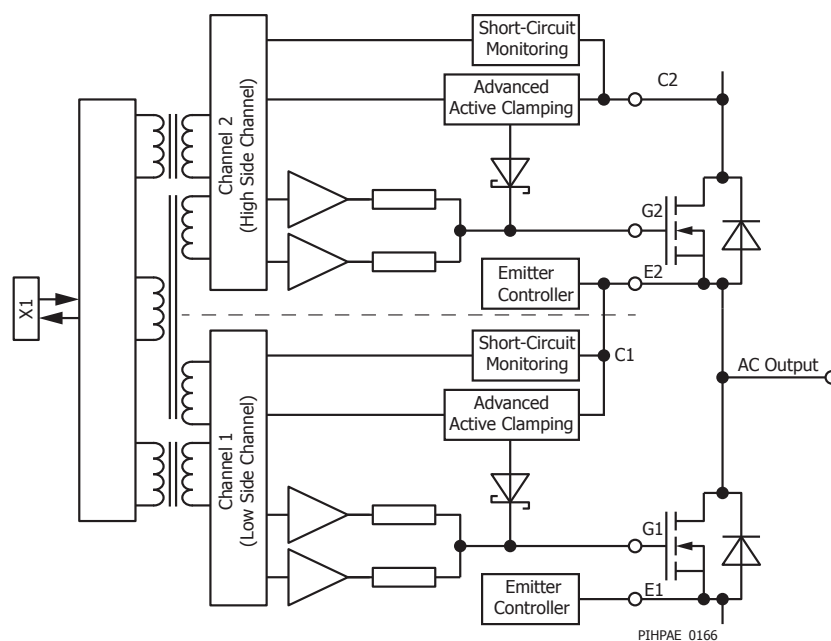


SCALE™-2 Plug-and-Play Gate Driver 2SP0230T

- +20 V / -5 V (regulated) SiC MOSET 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

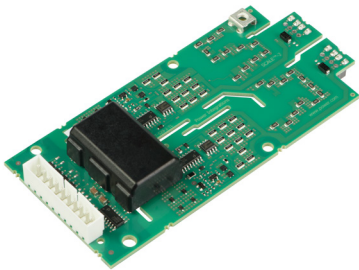
- Offboard EV charger
 - Industrial motor drives
 - Railway auxiliary inverters
- Induction heating
 - Photovoltaic inverters
 - Uninterruptible power supplies (UPS)

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 ⁻¹)	0		92	kHz
SC response time		1.8		µs
Creepage distance primary-secondary ²	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 2SP0115T2Bx-xx, 2SP0115T2Cx-xx, 2SP0115T2Dx-xx	-40		+85	°C



Design Support

Available Products

2SP0230T products list (www.power.com/2SP0230T)