

# IGBT Gate Drivers



## DESCRIPTION:

Powerex IGBT Gate Drivers are hybrid integrated circuits designed to drive Powerex IGBT modules. These devices operate as insulation amplifiers for these modules and they provide the required electrical isolation between the input and output with an optocoupler. Most devices provide short circuit protection and a fault signal is generated if the short-circuit protection feature is activated. These drivers supply the recommended off bias for Powerex IGBT modules. Some types feature an integral DC-DC converter to supply power for the gate driver.

## FEATURES:

- Single in-line Package
- 2500 VRMS Isolation
- Optically Isolated Input Interface
- Wide Output Voltage Swing (+15/-10V)

## APPLICATIONS:

To drive IGBT modules for the following applications:

- Inverter
- AC Servo
- UPS
- Welding
- Power Supply

## PRODUCT LINE UP:

Part Number	Integrated DC-DC Converter	Short Circuit Protection	Soft Shutdown	Output Current	Usable Range	Optimum Range
M57959L	No	Vce Desaturation	Yes	+/-2A	600V, 400A 1200V, 200A	600V, 100A 1200V, 50A
M57962L	No	Vce Desaturation	Yes	+/-5A	600V, 600A 1200V, 600A	600V, 400A 1200V, 200A
M57159L-01	No	Vce Desaturation	Yes	+/-1.5A	600V, 150A 1200V, 75A	600V, 75A 1200V, 50A
M57160AL-01	No	Vge RTC Operation	Yes – Adjustable	+/-5A	All 600V and 1200V F-series Modules	
M56161L-01	Yes	Vge RTC Operation	Yes – Adjustable	+/-5A	All 600V and 1200V F-series Modules	
VLA500-01	Yes	Vce Desaturation	Yes – Adjustable	+/-12A	600V, 800A 1200V, 1400A	600V, 800A 1200V, 1400A
VLA502-01	Yes	Vce Desaturation	Yes – Adjustable	+/-12A	600V, 400A 1200V, 200A	
VLA504-01	No	Vce Desaturation	Yes	+/-2A	600V, 400A 1200V, 200A	600V, 100A 1200V, 50A
VLA503-01	No	Vce Desaturation	Yes	+/-5A	600V, 600A 1200V, 600A	600V, 400A 1200V, 200A
VLA507-01	No	None	No	+/-3A	600V, 200A 1200V, 150A	600V, 200A 1200V, 150A
VLA513-01	No	None	No	+/-5A	600V, 600A 1200V, 400A	600V, 600A 1200V, 400A

