



FGD Floating Gate Driver

— Make Testing More Valuable

— Key Features

- Each board features a gate drive unit with four channels:
 - Outputs high-level V_{gh} range from 0V to 30V
 - Outputs low-level V_{gl} range from -30V to 0V
 - Voltage output window ranges from 10V to 35V
 - Peak current capability of 30A
- Each board includes a Qg measurement unit with two channels:
 - Outputs high-level V_{gh} range for Qg measurement from -5V to 25V
 - Outputs low-level V_{gl} range for Qg measurement from -25V to +5V
 - Voltage window ranges from 10V to 50V
 - Output current range for Qg measurement is from 1mA to 150mA
- Isolation voltage from ground is 1200V

Note: Information is subject to change without prior notice.

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➤ Specifications

Item	Parameter	Value
Gate Drive Unit	Channel	4
	Vgh (High-Level Output Voltage)	0V to 30V
	Vgl (Low-Level Output Voltage)	-30V to 0V
	DC Resolution	0.992mV
	DC Accuracy	±0.1V
	Output Voltage Window	10V minimum, 35V maximum
	High Rail Voltage	0V minimum
	Low Rail Voltage	0V maximum
	Pulse Resolution	0.1µs
	Driver Current	30A maximum
	Continuous Output Current	30mA
	Rising Time	< 20ns (Ron = 33Ω, Cload = 100pF)
	Falling Time	< 20ns (Roff = 33Ω, Cload = 100pF)
	Isolation Voltage	1200V
Creepage/ Clearance	≥ 5mm	
Qg Measurement Unit	Channel	2
	-I _g (Output Current for Q _g)	1mA to 150mA
	Continuous Output Current	30mA
	I _g Accuracy	± (0.5mA + 1%Setting)
	I _g Resolution	0.059mA
	Vgh (High-Level Output Voltage for Q _g)	-5V to 25V
	Vgl (Low-Level Output Voltage for Q _g)	-25V to +5V
	Voltage Accuracy	± (0.6V + 1%setting)
	Voltage Resolution	1.15mV
	VgClamp(H) (Voltage Clamp High)	-5V to 25V (MAX: 30Vp-p)
	VgClamp(L) (Voltage Clamp Low)	-25V to 0V (MAX: 30Vp-p)
	Voltage Clamp Accuracy	± (0.6V + 1%setting)
	Voltage Clamp Resolution	1.15mV
	Isolation Voltage	1200V
Creepage/ Clearance	≥ 5mm	

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