

STi 270 & STi 270C

**Stick/TIG Welding
Power Source**



Quick Specs



IP23S

Industrial Applications

Petro/Chemical
Mechanical Contractors
Shipboard Installation
Process Piping

Processes

Stick (SMAW)
TIG (GTAW) Lift-Arc

Input Power 400 V, 3-Phase Power

Amperage Range 5–270 A

Rated Output 270 A, 30.8 V @ 40% Duty Cycle

Weight 23 kg (50.7 lb)

The Power of Blue.®



Portable in the shop or at the job site—at 23 kg the STi 270 easily moves from location to location.

Inverter-based, DC power source has a **simple-to-use operator interface** providing only the necessary controls in a compact machine.

Thermal overload protection with indicator light helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

Lift-Arc™ start provides TIG arc starting without the use of high frequency.

VRD function is a simple design that reduces the open-circuit voltage to 12 volts when the welding power source is not in use.



STi 270C

Adjustable Hot Start™ for Stick arc starts. Adjust the optimal start current for the application. The current auto-matically increases the output amperage at the start of a weld.

Adjustable Arc force™ prevents sticking. Adjust the optimal arc force value. Adjustable arc force supports positional welding by increasing the output amperage.

Digital Meter – preset amperage/voltage or actual while welding.

Stick Cellulosic Function. Use with cellulosic electrode provides outstanding arc stability and penetration. It's ideal for welding in all positions.

Specifications (Subject to change without notice.)



Model	Input Power Three Phase AC50/60 Hz Voltage	Rated Welding Output		Max. Open- Circuit Voltage (U ₀)	Amperage Voltage Range DC	KVA/KW @ Duty Cycle	Dimensions	Weight Kg (Lb)
		100%	40%					
Sti 270	400 Volts Stick	180 A 27.2 V	270 A 30.8 V	50 VDC	5 – 270 A 20 – 30.8	11.4 KVA / 10.3 KW 40% Duty Cycle 7.9 KVA / 7.06 KW 100% Duty Cycle	Length: 568 mm (22.4 in.) Width: 219 mm (8.6 in.) Height: 347 mm (13.7 in.)	Net: 23.2 (51.1) Ship: 25.2 (55.6)
	400 Volts TIG	180 A 17.2 V	270 A 20.8 V		5 – 270 A 10 – 20.8	7.7 KVA / 6.7 KW 40% Duty Cycle 4.8 KVA / 4.0 KW 100% Duty Cycle		
Sti 270C	400 Volts Stick	180 A 27.2 V	270 A 30.8 V	50 VDC	5 – 270 A 20 – 30.8	11.4 KVA / 10.3 KW 40% Duty Cycle 7.9 KVA / 7.06 KW 100% Duty Cycle	Length: 568 mm (22.4 in.) Width: 219 mm (8.6 in.) Height: 347 mm (13.7 in.)	Net: 23.4 (51.6) Ship: 25.4 (56)
	400 Volts TIG	180 A 17.2 V	270 A 20.8 V		5 – 270 A 10 – 20.8	7.7 KVA / 6.7 KW 40% Duty Cycle 4.8 KVA / 4.0 KW 100% Duty Cycle		



Warranted for 3 years, parts and labor.



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Ordering Information

Power Source	Stock No.	Description	Qty.	Price
STi 270	#059 016 022	400 VAC, 50/60 Hz		
STi 270 C	#059 016 023	400 VAC, 50/60 Hz		

Date:

Total Quoted Price:



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