

# CST™ 280 Series

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**Stick/TIG Welding Power Source**



## Quick Specs



### Industrial Applications

Power plant construction  
Petrochemical construction  
Maintenance and repair  
Shipbuilding

### Processes

Stick (SMAW)  
TIG (GTAW) Lift-Arc™

**Input Power** Requires 3- or 1-phase power

**Amperage Range** TIG: 5–280 A, stick: 30–280 A

**Max. Open-Circuit Voltage** 77 VDC

**Net Weight** 41 lb. (18.6 kg)

**Superior stick arc performance** even on the difficult-to-run electrodes like E6010.

**Adaptive Hot Start™ for stick arc starts** automatically increases the output amperage at the start of a weld should the start require it. Prevents the electrode from sticking.

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



**Simple voltage-changeover switch** saves time when changing primary voltage. Input voltage can be changed without removal from inverter rack or removal of machine case.



CST 280



CST 280 with Meter

**NEW! Optional digital meter** for more precise control when presetting or monitoring welding amperage.

**Portable** in the shop or at the jobsite—at 41 pounds the CST 280 is easily moved from location to location.

**Remote amperage control** provided through 14-pin receptacle on front of the machine. This permits use of standard remote amperage control devices.

**Fan-On-Demand™** cooling system operates only when needed, providing power efficiency and noise reduction.

**Rack mountable** for protection, storage and transportation of multiple power sources while using a single primary power cable.

## Specifications (Subject to change without notice.)

**CC** **DC** **3 Phase** **1 Phase**

Description	Welding Mode	Input Power	Rated Output	Welding Amperage Range	Max. Open-Circuit Voltage	Amps Input at Rated Load Output, 50/60 Hz								KVA	KW	Dimensions	Net Weight
						208 V	220 V	230 V	400 V	440 V	460 V	575 V					
CST 280, 220–230/460–575 V	Stick (SMAW) TIG (GTAW)	Three-phase	280 A at 31.2 VDC, 35% duty cycle	5–280 A	77 VDC	—	35	34.2	—	—	17.8	14.7	14.6	10.2	H: 13.5 in. (343 mm) W: 7.5 in. (191 mm) D: 18 in. (457 mm)	41 lb. (18.6 kg)	
			200 A at 28 VDC, 100% duty cycle			—	23.3	22.5	—	—	11.7	9.7	9.6	6.4			
	Single-phase	200 A at 28 VDC, 50% duty cycle*	—	43.9		43	—	—	—	—	10.1	6.6					
		150 A at 26 VDC, 100% duty cycle*	—	32.7		32	—	—	—	—	7.3	4.6					
CST 280, 208–230/400–460 V	Stick (SMAW) TIG (GTAW)	Three-phase	280 A at 31.2 VDC, 35% duty cycle	5–280 A	67 VDC	36	—	34	19.8	18	17.5	—	14	10.2	H: 13.5 in. (343 mm) W: 7.5 in. (191 mm) D: 18 in. (457 mm)	41 lb. (18.6 kg)	
			200 A at 28 VDC, 100% duty cycle			23.5	—	22.8	13.5	12	12.7	—	10.2	6.9			
	Single-phase	200 A at 28 VDC, 50% duty cycle*	43.9	—		43	—	—	—	—	9.9	6.5					
		150 A at 26 VDC, 100% duty cycle*	35	—		32.9	—	—	—	—	7.6	4.8					

\*Output ratings on 230 V single-phase are reduced to comply with CSA current limitation on input power cable.

