

# TIG320PACDC (E2S32)

## Power Source

Rugged and robust EVO20 family look

**Auto Tungsten Tip Shaping:** Automatically balls the tungsten tip during arc ignition, ensuring subsequent arc start performance; simplifies tungsten preparation and extends electrode lifespan

**Assisted-Spot Welding Mode:** Capable of adjusting arc time and downtime intervals for uniform spot welds with minimal heat input on thin materials (down to 0.5mm)

**Dash-Arc Technology:** Delivers 99+% arc striking success rate, high consistency & high ignition response rate (50~60ms)

**HF stabilizing technology** ensures stable arc starting and maintenance, making it immune to input power source fluctuations.

**Easy-Set:** Simplifies welding job parameter settings and delivers assured results for inexperienced welders

**Ample remote control options available:** Wireless helmet, mobile app, handheld remote, and foot pedal for convenient parameter adjustments

10 job slots per welding mode for efficient parameter recall  
USB Type-C port for software updates and device charging



## Upgraded Water Cooler

### Enhanced reliability

- Built-in hall sensors reduce electromagnetic interference
- Potted power supply circuit with IP23S protection class
- Motor with dual-loop CV/CC power supply for enhanced stability
- Comprehensive protection including overvoltage, overcurrent, overheating, and abnormal water flow safeguards for enhanced equipment longevity

### Enhanced usability

- Built-in water vibration buffer reduces vibration in welding torches, conducive to smooth operation and consistent weld quality
- Built-in high lift pump compatible with welding torches of up to 30m
- Built-in LED for clear water level monitoring

## Specifications

Power Source		TIG320PACDC (E2S32)
Input Power Source		3ph, AC400V±15% 50/60 Hz
TIG	Rated Input Current	17 A
	Power Capacity	10.14 kVA
	Output Current Range	DC 10~320 A; AC: 20~320A
	Open Circuit Voltage	72 V
	Duty Cycle	30%
	Pulse Frequency	DC 0.5~200 Hz; AC: 0.5~20 Hz
	Pulse Width	5~95%
	AC Frequency	50~200 Hz
	AC Balance	20~60%
	Mix Frequency	1~20 Hz
MMA	Mix Duty Ratio	5~95%
	Spot Welding Time	Weld: 0.01~10 s; Interval: 0.1~10 s
	Rated Input Current	17.5 A
	Power Capacity	11.55 kVA
	Output Current Range	10~270 A
	Arc Force Range	0~200 A
	Hot Start Range	0~80 A
	Open Circuit Voltage	72 V
	Duty Cycle	30%
Power Factor		≥0.9
Efficiency (at max current)		≥80%
Idle Power Consumption		<10W
Insulation Class		H
Protection Class		IP23S
Dimensions (L×W×H)		558*230*416 mm
Net Weight		23.3 kg



### Standard Accessories

- 4M SGT18-S1-12-MSL water-cooled welding torch
- 300A earth clamp (2.5M, 25mm<sup>2</sup>)
- 1 pc 300-350A quick connector
- 1 pc tungsten electrode (2.4×150MM)
- 1 pc hexagon wrench (#5)
- 2 pcs hose clamps (6-9mm)
- 1 pc water quick connector

Water Cooler		LC-40(C0S2)
Input Power Source		1ph AC400V±15% 50/60Hz
Rated Input Power		140 W
Water Tank Volume		6.5 L
Maximum Pressure		0.42 MPa
Maximum Flow		5 L/min
Rated Cooling Power		1.5 KW (1L/min)
Protection Class		IP23S
Coolant		Industrial distilled water, antifreeze
Operating Ambient Temperature		Industrial distilled water: 7~60°C Antifreeze: -20~60°C
Storage Temperature Range		-20~60 °C
Noise		<70 db
Dimensions (L×W×H)		600×217×283 mm
Net Weight		14 kg