



Key Attributes

- Latest IGBT Inverter based ZVS Soft switching technology, PWM control with constant output current –suitable for MMA, DC TIG, DC PULSED TIG welding.
- Inbuilt VRD function in MMA mode.
- Different parameters can be pre-set and locked. Unlocking and re-setting also can be done.
- High performance MCU, Digital control, Digital display
- 2T HF/ 4T HF/ 2T Lift TIG/ 4T Lift TIG, current down slope and up slope, gas post-flow, Pulse Frequency
- Intelligent protection: Over voltage, under voltage, over current, overheat.
- Lightweight and easily portable.
- Suitable for dual input supply 415V, 3 Ph as well as 230V, 1 Ph.



TIG Welding Parameter Specifications

Parameter	Value		Unit
	INPUT SUPPLY 415 V+ 15% / -10%, 3 PH, 50 / 60 HZ	INPUT SUPPLY 230 V +15% / -10%, 1 PH, 50 / 60 HZ	
Gas Pre Flow Tim	0.1 –1.0		Sec
Initial Welding Current (IS)	10 –300	10 –200	A
Current Upslope Time	0 –10.0		Sec
Peak Current (IP)	10 –300	10 –200	A
Base Current (IB)	10 –300	10 –200	A
Pulse Frequency (F)	0.5 –100		Hz
Pulse Width Range (Duty)	5 –100		%
Current Down Shope Time	0 –10.0		Sec
Final Current	10 –300	10 –200	A
Gas Post Flow Time	0.1 –10.0		Sec



MMA Welding Parameter Specifications

Parameter	Value	Unit
Hot Start	1 -10 (10 Signifies 100%)	%
Welding Current	10 -300	A
Arc Force	1 -10 (10 Signifies 100%)	%

Technical Specifications -PS CHAMPTIG 301 DV

Parameter	Value		Unit
3 Ph Input Supply Voltage, Phase, Frequency	415 +15% -10% V; 3; 50/60		V AC; NOS.; HZ
1 Ph Input Supply Voltage, Phase, Frequency	230 +15% -10% V; 1; 50/60		V AC; NOS.; HZ
Efficiency	88		%
Power Factor	0.8		^
Max. Input Power For 3 Ph Supply	MMA Mode	TIG Mode	KVA
	16 @ 300 A	11.5 @ 300 A	



Technical Specifications -PS CHAMPTIG 301 DV (Cont.)

Parameter	Value		Unit
Input Current for 3 Ph supply	MMA Mode	TIG Mode	AMPS AC
	22 @ 300 A	16 @ 300 A	
Open Circuit Voltage (with / without VRD)	27V / 78V(+/-5V)		VOLTS DC
Welding Current Range (MMA/ TIG)	10-300		AMPS DC
TIG Welding Output (at 40°C & 10 Min Duty Cycle) for 3 Ph supply			
35% Duty Cycle	300A @ 22.0 V		-
60% Duty Cycle	220A @ 18.8 V		-
100% Duty Cycle	170A @ 16.8 V		-
MMA Welding Output (at 40°C & 10 Min Duty Cycle) for 3 Ph supply			
35% Duty Cycle	300A @ 32.0 V		-
60% Duty Cycle	220A @ 28.8 V		-
100% Duty Cycle	170A @ 26.8 V		-
Protections	Over Voltage, Under Voltage, Over Temperature Protection		
Cooling	Forced Air		Type
Class Of Insulation	F		Class
Degree Of Protection	Ip23		Degree
Dimensions: Length x Width x Height	480 X 175 X 310		MM
Weight (approx.)	13		Kg





Description	Code
F10.38.003.0225	MMA/pulse TIG welding power source model CHAMPTIG 301 DV with 8m gas cooled TIG torch, 3mtr earthing cable with clamp, 5m gas hose assly



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