

VANTAGE580 WELDER

580AMP DIESEL MIG WELDER

Product Number	Product Number	Rated Output @ 40° C	Output Range	Open Circuit Voltage	AC Generator Auxiliary Power ⁽¹⁾	Auxiliary Receptacles ⁽²⁾	Dimensions ⁽³⁾ HxWxL (mm)	Weight (kg)
Frontier 580X	K5293-1	IEC Rating: 500A / 40V / 100% 525A / 36V / 60% Max Rating: 580A / 35V / 40% Desert Rating: @ 55°C 400A / 36V / 100%	Stick / Pipe: 30-580 Amps DC TIG: 5-580 Amps MIG / FCAW: 10-45 Volts Arc Gouging: 60-580 Amps	71 Peak OCV >30 Peak OCV with VRD Active	Single Phase: 7.2 kW Continuous, 11.5 kW Peak, 240V @ 60 Hz Three Phase: 20 kW Continuous, 25 kW Peak 240V @ 60 Hz	Clipsal IP66 (240V / 15A / 1-) (Auto Switch) Clipsal IP66 (415V / 32A / 3-)	Machine Only: 913 x 643 ⁽⁴⁾ x 1,524 To Top of Exhaust Pipe: 1,113	586 ⁽⁵⁾

ENGINE SPECIFICATIONS

Engine Model	Engine Description	Operating Speed (RPM) @ 24.7 HP	Displacement	Capacities
Perkins 404D-22-T(5) Tier 4i Compliant	4 Cylinder 43 HP (32 kW) Turbocharged Water Cooled Diesel Engine	High Idle: 1800 Low Idle: 1440	Bore: 2.2L Stroke: 871 mm x 92.5 mm	Fuel: 76L Oil: 8.0 L Cooling System: 6.8L

(1) When welding, available auxiliary power will be reduced. Output voltage is within +/- 10% at all loads up to rated capacity.

(2) Circuits cannot be wired in parallel to operate the same device.

(3) Includes width of door. Base width is 610 mm (24.0 in.)

(4) Machine only – Does not include fuel.

(5) Engine warranted separately by engine manufacturer.

SIMULTANEOUS WELDING AND POWER LOADS

Welding Output	Permissible Power-Watts (Unity Power Factor)	Permissible Auxiliary Current in Amperes	
		240V ±10%*	415V ±10%
500A/40V	0	0	0
350A/34V	8,100	30*	14.0 amp/phase
200A/30V	12,000	30*	18.5 amp/phase
150A/26V	16,000	30*	23.6 amp/phase
90A/24V	18,000	30*	26.4 amp/phase
0	20,000	30*	28.0 amp/phase

* Each receptacle is limited to 15 amps.