680 WATT

POWER FACTOR CORRECTED,

PARALLELABLE, MULTI-OUTPUT

WARM SWAPPABLE, N + 1

REDUNDANT POWER SUPPLY

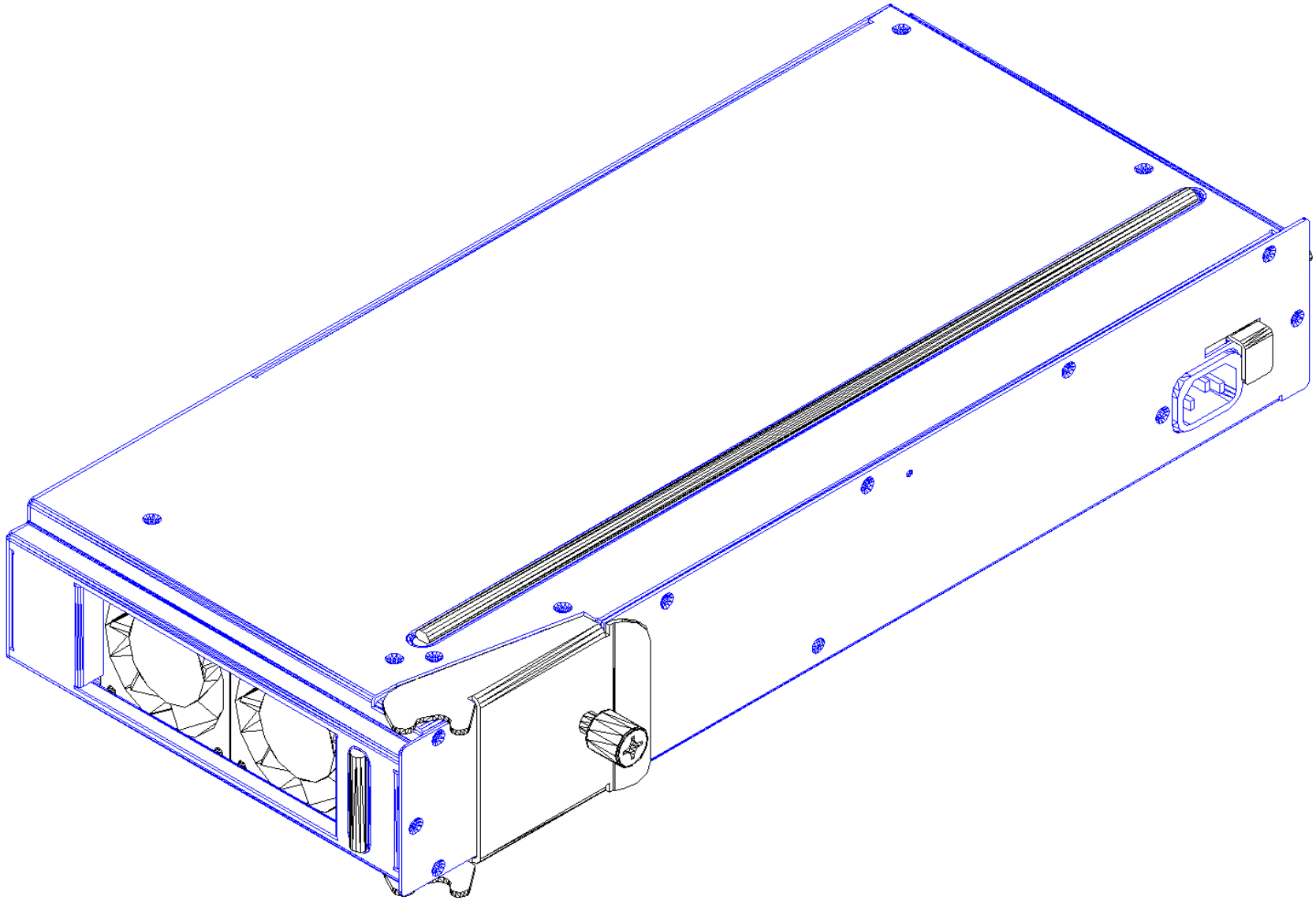
PS 2256 POWER SUPPLY FEATURES

Input Power:	90-264VAC, 47-60Hz, single phase, 13A Max Service, (With Active Power Factor Correction)
Inrush Current:	Limited by Active Inrush Current Protection Circuit to under 40 Amps peak for cold starts and less than 80A for hot start.
Input Connector :	Power Connetor IEC 320 15A/ 250 Vac
Output Connector:	Elcon Middle Drawer (See page 6)
Output Power:	680 W Max; +3.3 V @ 120A, +2.5 V @ 75A, +5 V @ 10A, & +12 V @ 4A
Parallel Operation:	Designed for third wire interconnect current sharing. Current deviation less than +/- 10% of full load. Warm pluggable N+1 redundant.
Nominal Size:	16.65" x 7.25" x 2.68" (423 mm x 184 mm x 68 mm)
Weight:	< 13.5 lbs.
Operating Ambient:	0 - 50 °C
Cooling:	Self contained fans
Signals:	O Good Signal, IN Good Signal (TTL Level)
Indicators:	Green LED "O Good"
Construction:	Fully enclosed steel chassis
Controls:	Global Inhibit, +5 V, +3.3 V and +2.5 V have remote sensing.
Protections:	Primary and Secondary Over temperature lockout. Overvoltage lockout on DC input bus. Primary power limiting. Overcurrent on down converter's primaries. Overvoltage lockout on all outputs, overcurrent protection (non-latching) on all outputs. Lockouts reset by recycling AC input power for < 10 seconds. ORing diodes on all outputs.
Power Circuits:	Power factor correction boost converter @ 50 kHz input stage. Two-switch forward (isolating down) converter @ 100 kHz with magnetic amplifiers. Current mode controlled 125 kHz flyback converter provides internal primary and secondary bias.

24. TYPICAL PERFORMANCE

OUTPUT	+3.3V	+2.5V	+5V	+12V
Line Regulation	0.08 %	0.04 %	0.02 %	0.01 %
Load Regulation	1.18 %	1.28 %	0.77 %	0.2 %
Differential Mode Ripple	9.8 mV	7.8 mV	5.6 mV	5.2 mV
Differential Mode Noise	60 mV	46 mV	92 mV	108 mV
OVP	4.4 V	3.3 V	6.66 V	14.7 V
OCP	156A	96A	15A	5.5A
Gain Margin	> 25 dB	> 25 dB	> 12 dB	> 20 dB
Phase Margin	60°	55°	51°	40°
Line Conducted EMI	Complies with FCC A and CISPR B			
Leakage Current @ 264 Vac	1.5 mA			
Inrush @ 264 Vac	< 35 A			
Hold Up Time @ 90 Vac	3.3 V @ 21 ms			
Efficiency and Power Factor @ 100 Vac, 680 W	> 66 %, 0.996			

MECHANICAL OUTLINE



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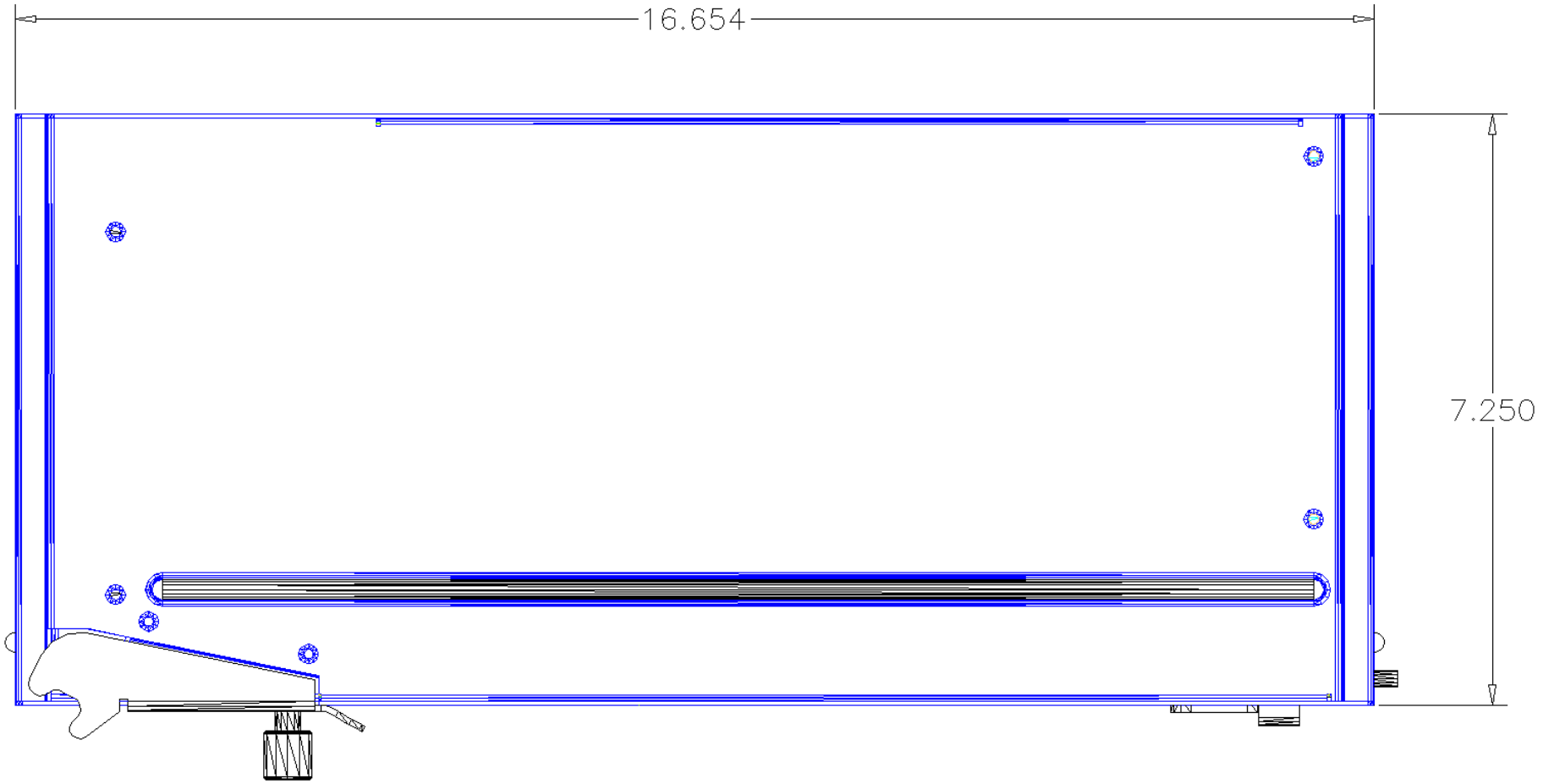

MECHANICAL OUTLINE WITH OUTPUT CONNECTOR