

## DOBLE F6300e TECHNICAL SPECIFICATIONS

All specifications apply when used as an amplifier in combination with a F6150/e/sv\*

ENHANCED CURRENT AMPLIFIERS				
AC RMS Ranges	DC Ranges	Power	Resolution @ AC Ranges	Resolution DC Ranges
12 X 8.75, 17.5, (35)* A (L-N)	12 X 5.83, 11.7, (23.3)* A	12 X 87.5VA / 87.5 W; (12 X 131.25VA / 131.25 W)*	0.001 A	(0.001) A @ 5.83 A (0.01) A @ 11.6, (23.3)* A
6 X 8.75, 17.5, 35, (70)* A (L-N)	6 X 5.83, 11.7, 23.3, (46.6)* A	6 X 175VA / 175 W; (6 X 262.5VA / 262.5 W)*	(0.001) A @ 8.75, 17.5, 35 A (0.01) @ (70)* A	(0.001) A @ 5.83 A (0.01) A @ 11.7, 23.3, (46.6)* A
2 X 8.75, 17.5, 26.25, 52.5, 105, (210)* A (L-N) 2x S1    S2    S3	2 X 5.83, 11.7, 17.5, 35, 70, (140)* A 2x S1    S2    S3	2 X 525VA / 525 W; (2X787.5VA/787.5 W)* 2x S1    S2    S3	(0.001) A @ 8.75, 17.5, 26.25 A (0.01) A @ 52.5, 105, (210)* A	(0.001) A @ 5.83 A (0.01) A @ 11.7, 23.3, 35, 70, (140)* A

\* Maximum power delivered at high source range

GENERAL SPECIFICATIONS	
Enclosure	High-impact, molded, flame-retardant ABS-meets National Safe Transit Association testing specification No.1A for immunity to severe shock and vibration
Environmental	IEC 60068-2-2 Dry Heat (+85°C storage; +50°C Rating Operating), IEC 60068-2-1 Cold (-50°C storage; 0°C operating), IEC 60068-2-30 Damp Heat (+55°C, 6 cycles, 95% humidity), NEMA Enclose Rating Type 1IEC Enclosure IP20
Electrostatic Discharge Immunity	IEC 801-2 I.E.C. performance level 1 @ 10kV: normal performance within specifications. I.E.C. performance level 2 @ 20kV: no permanent damage.
Mechanical	IEC 60068-2-27 Shock (15g/11ms, half sine), IEC 60068-2-6 Vibration (10-150 Hz, 20m/s <sup>2</sup> ), IEC 60068-2-6 Drop Test
EMC Emissions	FCC 47 CFR Part 15 Class A (USA), EN55011:1998/A1:1999/ A2:2002 Group 1 Class A ISM(EU), AS/NZS CISPR 11:2004 Class A ISM (Australia), ICES-001 Issue 3 ISM (Canada)
Surge Withstand Capability	ANSI/IEEE c37.90. The simulator functions as a source during surge withstand capability tests, when the ANSI/IEEE specified isolating circuit is interposed between the simulator and the test relay.
Weight	42lb, 19.05kg (front cover and strap included)
EMC Immunity	EN 61000-6-2:2005; IEC 61000-4-2/3/4/5/6/11
Line Power Supply	105-264 V, 47-63 Hz
Dimensions:	15 X 9.5 X 18 in, 38 X 24 X 45.7 cm
Quality Assurance Management System:	Third Party certification to ISO 9001:2000
Calibration	Certification traceable to N.I.S.T. standards
Humidity	Up to 95% relative humidity, non-condensing
Safety	EN 61010-1; UL 61010-1; CSA 27.2 # 61010-1

AC AMPLITUDE ACCURACY @ 50-60 HZ @ 20°-30° C		
Typical	Guaranteed	
0.02% of reading + .01% of range	0.09% of reading + .04% of range	
CONVERTIBLE SOURCE IN CURRENT MODE @ 20°-30° C		
Guaranteed		
<0.5%		
PHASE ANGLE @ 50/60 HZ		
Range	Accuracy	Resolution
±360° - 0°	± 0.25°	± 0.1°
DISTORTION @ 50/60HZ   SOURCES TOTAL HARMONIC DISTORTION (THD)		
Typical	Guaranteed	
<0.02%	<0.1%	
FREQUENCY		
Bandwith	Range	Resolution
DC - 3kHz at Full Power	DC, 0.1Hz - 2.0kHz Continuous Full Load	0.001 Hz
ACCURACY		
Typical	@ 20° - 30° C	@ 0° - 50° C
0.5 ppm	1.5 ppm	10 ppm
VARIABLE OUTPUT BATTERY SIMULATOR		
Range	6 - 300 V DC	
Resolution	0.3 V	
Power	90 W, 1.5 A max	
50/60 Hz Ripple	<0.2% of Range	
Accuracy	<± 5%	

\*When used with 3rd party software, the scaling factors need to be checked and applied for published accuracies



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Specifications are subject to change without notice.

Doble is ISO certified.

Doble is an ESCO Technologies Company.  
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