

DOBLE F6350e TECHNICAL SPECIFICATIONS

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

CONVERTIBLE AMPLIFIERS

Current Mode

Convertible Source AC RMS Ranges	Convertible Source DC Ranges	Power	Resolution @ AC Ranges	Resolution DC Ranges
6 X 0.5, 1.0 A (L-N)	6 X 0.354, 0.707 A	6 X 75VA / 75 W	0.0001 A	0.0001 A
3 X 0.5, 1.0, 2.0 A (L-N)	3 X .354, 0.707, 1.41 A	3 X 150VA / 150 W	0.0001 A	0.0001 A
1 X 1.5, 3.0, 6.0 A (L-N) S1 S2 S3	1 X 1.06, 2.12, 4.24 A S1 S2 S3	1 X 450VA / 450 W S1 S2 S3	0.001 A	0.001 A

Current Transient Mode

Convertible Source AC RMS Ranges	Convertible Source DC Ranges	Power	Resolution @ AC Ranges	Resolution DC Ranges
6 X 0.75, 1.5 A (L-N)	6 X 0.53, 1.06 A	6 X 97.5VA / 97.5 W	0.0001 A	0.0001 A
3 X 0.75, 1.5, 3.0 A (L-N)	3 X 0.53, 1.06, 2.12 A	3 X 195VA / 195 W	0.0001 A	(0.0001 A) @ 0.53, 1.06 A (0.001 A) @ 2.12 A
1 X 2.25, 4.5, 9.0 A (L-N) S1 S2 S3	1 X 1.59, 3.18, 6.36 A S1 S2 S3	1 X 585VA / 585 W S1 S2 S3	0.001 A	0.001 A

Voltage Mode

Convertible Source AC RMS Ranges	Convertible Source DC Ranges	Power	Resolution @ AC Ranges	Resolution DC Ranges
6 X 75, 150 V (L-N)	6 X 106, 212 V	6 X 75 VA/ 75 W	0.01 V	(0.01 V) @ 106 V (0.1 V) @ 212 V
3 X 75, 150, 300 V (L-N)	3 X 106, 212, 424 V	3 X 150 VA / 150 W	0.01 V	(0.01 V) @ 106 V (0.1 V) @ 212, 424 V
1 X 150, 300, 600 V (L-L) S1 & S2	1 X 212, 424, 848 V S1 & S2	1 X 300 VA / 300 W S1 & S2	0.01 V	0.1 V

ENHANCED CURRENT AMPLIFIERS

AC RMS Ranges	DC Ranges	Power	Resolution @ AC Ranges	Resolution DC Ranges
6 X 8.75, 17.5, (35)* A (L-N)	6 X 5.83, 11.7, (23.3)* A	6X 87.5VA / 87.5 W; (6 X 131.25VA / 131.25 W)*	0.001 A	(0.001) A @ 5.83 A (0.01) A @ 11.6, (23.3)* A
3 X 8.75, 17.5, 35,(70)* A (L-N)	3 X 5.83, 11.7, 23.3,(46.6)* A	3 X 175VA / 175 W; (3 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 DC (0.01) A @ 11.7, 23.3, (46.6)* A
1 X 8.75, 17.5, 26.25,52.5, 105, (210)* A (L-N) S1 S2 S3	1 X 5.83, 11.7, 17.5, 35,70, (140)* A S1 S2 S3	1 X 525VA / 525 W; (1X787.5VA/787.5 W)* 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

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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 ²), 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 V & I SOURCES TOTAL HARMONIC DISTORTION (THD)

Typical	Guaranteed
<0.02%	<0.1%

FREQUENCY

Bandwidth	Range	Resolution
DC - 3kHz at Full Power	DC, 0.1 Hz - 2.0 kHz 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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