



## IMPULSE® G+ Series 3 Specifications Specification Value and Information for All Models

<b>Certification</b>	UL, cUL (CE available upon request)
<b>Rated input power supply volts &amp; freq</b>	3-phase 200-240, 380-480 VAC; 50 or 60 Hz
<b>Allowable input voltage fluctuation</b>	+10% or -15% of nominal
<b>Allowable input frequency fluctuation</b>	±5% of nominal
<b>Control method</b>	Fully digital; sine-wave, pulse-width-modulated
<b>Maximum output voltage (VAC)</b>	Max output voltage 3-phase, 200/208/220/230/240V;380/400/415/440/460/480V (proportional to input voltage.)
<b>Rated frequency (Hz)</b>	0 to 150 Hz (consult factory for applications over 150 Hz)
<b>Output frequency accuracy</b>	.01%—with digital reference command, -10° to 40° C; .1%—with analog reference command; 10 bits/10V; 25° C, ±10° C
<b>Frequency reference resolution</b>	Digital: .01 Hz; Analog: .03 Hz (at 60 Hz)
<b>Output frequency resolution</b>	.01 Hz
<b>Overload capacity</b>	150% of rated load for 1 min
<b>Remote frequency reference sources</b>	0-10VDC (20Ohm); 4-20mA (250Ohm); ±10VDC; serial (RS-485)
<b>Accel/Decel times</b>	0.1 to 25.5 sec—4 sets; 8 parameters are independently adjustable
<b>Braking torque</b>	150% or more with dynamic braking (optional)

<b>Motor overload protection</b>	Electronic thermal overload relay; field-programmable
<b>Overcurrent protection level</b>	(OC) 200% of rated current
<b>Circuit protection</b>	Ground fault and blown-fuse protection
<b>Overvoltage protection level</b>	410/820VDC
<b>Undervoltage protection level</b>	190/380VDC
<b>Heatsink over temperature</b>	Thermostat trips at 105 ° C
<b>Torque limit selection</b>	Separate functions for FORWARD, REVERSE, REGEN; all selectable from 0-300%
<b>Stall prevention</b>	Separate functions for accel, at-speed, and constant horsepower region
<b>Other protection features</b>	Speed deviation, overspeed, mechanical brake failure, lost output phase, failed-oscillator, PG-disconnect, mechanical overload, roll-back detection, and internal braking transistor failure.
<b>DC bus voltage indication</b>	Charge LED is on until DC bus voltage drops below 50VDC
<b>Location</b>	Indoors; requires protection from moisture, corrosive gases and liquids
<b>Ambient operating temperature</b>	14° to 113° F (-10° to 45° C) for open chassis
<b>Storage temperature</b>	-4° to 140° F (-20° to 60° C)
<b>Humidity</b>	95% relative; noncondensing
<b>Vibration</b>	1 G less than 20 Hz; 0.2 G for 20-50 Hz
<b>Elevation</b>	3300 ft. (1000m) or less