

Altitude Conditions

ATV630 / ATV650

Operating Altitude

All frame sizes, except frame size 7

Altitude	Supply voltage (1)	Supply Electrical Network			Derating
		TT/TN	IT	Corner-Grounded	
Up to 1000 m (3300 ft)	200...240 V	✓	✓	✓	o
	380...480 V (2)	✓	✓	✓	o
	600 V	✓	✓	–	o
	500...690 V	✓	✓	–	o
1000...2000 m (3300...6600 ft)	200...240 V	✓	✓	✓	✓
	380...480 V (2)	✓	✓	✓	✓
	600 V	✓	✓	–	✓
	500...690 V	✓	✓	–	✓
2000...3800 m (6600...12400 ft)	200...240 V	✓	✓	✓	✓
	380...480 V (2)	✓	✓	–	✓
	600 V	✓	✓	–	✓
	500...690 V	–	–	–	–
3800...4800 m (12400...15700 ft)	200...240 V	✓	✓	✓	✓
	380...480 V (2)	✓	–	–	✓
	600 V	✓	–	–	✓
	500...690 V	–	–	–	–
<p>(1) Tolerance: –15...+10%</p> <p>(2) The voltage of floor standing drives ATV••0•••N4F is limited to 440 Vac.</p> <p>Legend:</p> <p>✓: Derate the nominal current of the drive by 1% for each additional 100 m.</p> <p>o: Without derating</p> <p>–: Not applicable</p>					

Frame Size 7

Altitude	Supply voltage (1)	Supply Electrical Network			Derating
		TT/TN	IT	Corner-Grounded	
Up to 1000 m (3300 ft)	380...480 V	✓	✓	✓	o
1000...2000 m (3300...6600 ft)	380...480 V	✓	✓	✓	✓
2000...3000 m (6600...9800 ft)	380...480 V	✓	✓	–	✓
<p>(1) Tolerance: –15...+10%</p> <p>Legend:</p> <p>✓: Derate the nominal current of the drive by 1% for each additional 100 m.</p> <p>o: Without derating</p> <p>–: Not applicable</p>					

Chemical and Mechanical Conditions

Withstand to harsh environments, conforming to IEC/EN 60721-3-3

- Chemical active substances, class 3C3
- Mechanical active substances, class 3S3
- Mechanical conditions, class 3M3