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AI-Powered Portable Oxygen Concentrator.

Smart Pulse Flow 1–7L

Extracted Specification – Brand Styled

• Performance & Oxygen Output •

SETTING (L/min)	OXYGEN CONCENTRATION (%)	BATTERY LIFE (HOURS)	NOISE LEVEL (dB)
1 L/min	90%	5.0 h	49 dB
2 L/min	90%	4.4 h	51 dB
3 L/min	90%	3.8 h	51 dB
4 L/min	90%	3.3 h	52 dB
5 L/min	80%	2.7 h	52 dB
6 L/min	80%	2.1 h	55 dB
7 L/min	80%	1.5 h	56 dB

Battery life values are linear estimates based on the specified range of 1.5 h (7 L/min) to 5.0 h (1 L/min) with ±15% tolerance.

• Electrical & Safety Parameters (per GB 4706) •

Item	Specification
Withstand voltage / leakage current	AC 100-240 V, 50 Hz / 60 Hz (DC output: 16.8 V)
Rated input power	55 W
Operating current	5.2 A
Insulation class	Compliant with GB 4706 standards
Withstand voltage / leakage current	Compliant with GB 4706 standards
Ingress protection (IP) rating	Compliant with GB 4706 standards
Over-heat protection	Yes
Over-pressure protection	Yes
Low-oxygen / high-pressure alarm	Yes (function present)
Cooling method	Forced-air cooling fan

• Physical & Environmental Characteristics •

Item	Specification
Overall dimensions (L × W × H)	195 mm × 85 mm × 175 mm
Net weight	≈ 1.4 kg
Operating current	≈ 3.2 kg
Gross weight (with packaging)	+5 °C ~ +40 °C
Maximum usable altitude	5 500 m

• Consumables & Structural Details •

Item	Specification
Molecular sieve	Lithium-based JLOX-101A enterprise standard Q/320571 CATL 001-2019)
Water tank	None
Filter configuration	Single-stage pre-filter (no secondary filter)
Battery model	YK1006S-LDC-001 (Lithium-ion)