

Warrior Datasheet*

JEMS HOT PRODUCT EMS TODAY 2018

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QinFlow

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System Components • Base: Base Unit (BU)

• Disposable Units (DUs): Standard DU | Compact DU

• Portable Energy Sources [1]: Enhanced Battery | Lite battery [2] | Charger & Adapter

• AC Energy Source (optional): AC Power Supply Module

Weights • Base Unit: 700 grams (1.54 lb)

• Enhanced Battery: 880 grams (1.94 lb)

• Lite Battery: 460 grams (1.0 lb)

• Standard DU (in sterile bag): 140 grams (0.3 lb) • Compact DU (in sterile bag): 120 grams (0.26 lb)

• AC Power Supply Module: approximately 2,900 grams (6.4 lb)

Dimensions (HxWxL) ■ <u>BU with Enhanced Battery</u>: 235×160×75 mm (9.25×6.5×2.9 in)

> ■ <u>BU with Lite Battery</u>: 205×160×75 mm (8.0×6.5×2.9 in) ■ Standard DU: 210×160×45 mm (8.3×6.5×1.8 in)

• Compact DU: 72x69x118 mm (2.8x2.7x4.6 in)

• AC Power Supply Module: approximately 300×190×180 mm (11.8×7.5×7.1 in)

Battery Characteristics • Enhanced Battery: Li-ion, 22.2VDC (nominal), 4,600mAh

<u>Lite Battery</u>: Li-ion, 18VDC (nominal), 3,000mAh

Battery Charger Input Voltage ■ 110-120 or 220-240 VAC; 50-60 [Hz] | 12/24V

Electrical Specifications • Input: 110VAC 7A RMS | 240VAC 3.5A RMS | 50-60 Hz

• Output: 24 VDC; 26.5A

Table 2: Performance Measures

Battery Warming Capacity Up to 3 liters at 4°C (39.2°F) fluid input temperature and up to 5 liters at 20°C (68°F) fluid

input temperature using single Enhanced Battery

Flow Rate KVO to 200/290 ml/min (Enhanced Battery/AC) for the full warming range (4-38°C/39.2-100.4°F) and

KVO to 290/500 ml/min (Enhanced Battery/AC) for the 20-38°C (68-100.4°F) warming range [3]

Warming Speed Up to 11 seconds

Output Set-Point Temp. 38°C (100.40F)

± 2°C (±3.6F) [4] **Temperature Tolerance**

Table 3: Certifications

Certificate no. 7205GB410161222 CE

IEC 60601-1; IEC60601-1-2: 2007; IEC 62133 IFC

510(k) K171215 and K180154 (AC) [5] **FDA**

Canada License no. 95781

Other EN 1789 compliant

Table 4: Environmental Specifications -30°C to 70°C (-22°F to 158°F) [6] **Storage Conditions**

-5°C to 40°C (23°F to 104°F) [6] [7] **Operation after Storage**

549 to 1,060 hPa / -400 to 4,572 **Atmospheric Pressure/**

Altitude meter (-1,312 to 15,000 ft) [8]

- [1] Note: battery part number QPORT1130 is in end-of-life stage.
- [2] In development; planned availability: 2H 2018.
- Using standard IV kit and a 14G Venflon; blood products' flow rate may differ.
- Attributable to various change-in-flow scenarios
- This document is adjusted to CE approvals; for exact performance of the FDA-cleared. version, please refer to the relevant IFU or contact your OinFlow representative.
- [6] Under EN1789:2007 +A2:2014.
- The benchmark tests were performed after storage at extremely cold temperature of -30°C (-22°F).
- [8] In compliance with IEC60601-1-11:2010 section 4.2.2c.