

Pacemaker

Type:	VVI demand; asynchronous (fixed rate) when used without ECG leads.
Pulse Type:	Rectilinear, constant current.
Pulse Duration:	40 milliseconds.
Pulse Amplitude:	Variable to 140 mA.
Pacing Rate:	Variable from 30 to 180 PPM.
Output Protection:	Fully defibrillator-protected and isolated.
Pacer On:	Message display on monitor.

Pacing/Defibrillation Electrodes

Specially designed pre-gelled ZOLL Multi-Function Electrodes, and Multi-Function **stat•pacz** electrodes packaged in pairs. Can be used in the anterior/anterior position. Pediatric sizes available.

Defibrillator

Waveform:	Damped sinusoid.
Output Energy Delivered:	Selectable at 2, 3, 5, 7, 10, 20, 30, 50, 100, 150, 200, 300, 360 joules.
Energy Selection:	Control on sternum paddle and front panel.
Charge Time:	Less than 10 seconds.
Delivered Energy Display:	CRT monitor displays delivered energy.
Synchronized Mode:	Synchronizes defibrillator pulse to patient's R-wave. "SYNC" message displayed on monitor. Marker on monitor and on recorder paper identifies R-wave.
Charge Controls:	Control on apex paddle and on front panel.
Paddles:	Standard paddles are anterior/anterior adult and pediatric. Adult paddles slide off to expose pediatric paddles.
Defibrillation Electrodes:	Specially designed pre-gelled ZOLL Multi-Function Electrodes used in anterior/anterior or anterior/posterior positions; packaged in pairs.
Integral Defibrillator Tester:	Integral circuitry allows complete test of defibrillator charge and discharge without removing paddles from storage wells. Identical circuitry allows complete test of unit configured with multi-function cable.
Defib On:	Message display on monitor.
Monitor and Display	
Patient Connection:	Via 3-lead ECG cable, paddles, and electrodes. Selectable by front panel switch.
Input Protection:	Fully defibrillator-protected. Special circuit prevents distortion of ECG by pacer pulse.
Electrical Isolation and Shielding:	Input protected against high-voltage defibrillator pulses and typical radio frequency interference.
Bandwidth:	5 – 35 Hz (–3dB) standard.

Display Format:	Nonfade, moving trace.
Monitor On:	Message display on monitor.
Screen Type:	High-resolution CRT display.
Screen Size:	4.5 inches diagonally (56 mm x 86 mm, viewing area).
Sweep Speed:	25 mm/sec.
Viewing Time:	3.4 seconds.
Heart Rate:	Digital display on monitor 0 – 300 BPM.
Pacer Output Current:	Digital display on monitor 0 – 140 mA.
ECG Lead Selection:	Display on monitor.
ECG Size:	.5, 1, 1.5, 2, 3 cm/mV display on monitor.
Alarm On/Off Status:	Display on monitor. User selectable High (60 – 280 BPM) Low (20 – 100 BPM).
ECG Lead Off:	Message display on monitor.
Pacer Electrode Off:	Message display on monitor.
Defibrillator Paddle Fault:	Message display on monitor.
Defibrillator Electrode Fault:	Message display on monitor.
Recorder Paper Out:	Message display on monitor.
Low Battery Voltage:	Message display on monitor.

Recorder

Paper:	Standard 40 mm thermal (grid width), 50 mm (paper width).
Speed:	25 mm/sec.
Delay:	4 seconds.
Annotations:	Time, date, defib energy, heart rate, pacer output, sync, ECG size, lead, alarm, defib test OK/Fail.
Writing Method:	High-resolution, thermal array print head.
Printout Modes:	Manual, automatic.
Control:	Front panel or paddle.
Automatic Function:	15 second recording initiated by alarm conditions and defibrillator discharge.

Batteries

Type:	Rechargeable, sealed lead-acid.
Charger:	ZOLL Battery Support System or ZOLL PowerCharger.
Recharge Time:	16 hours for full recharge with ZOLL Battery Support System. 4 hours or less with ZOLL PowerCharger.
Service:	Battery is easily removed as a unit.
Low Battery Indicator:	Message display on monitor with audible tone. Approximately 20 minutes of monitoring remain when message is displayed.
Operating Time:	With new fully charged battery - 35 defibrillator charges to maximum energy (360J), or 2.5 hours min. (3 hours typical) of continuous monitoring, or 2.5 hours of continuous monitoring/pacing at 60 mA, 80 beats/min.

General

Size:	10.7 cm high x 33.5 cm wide x 31 cm deep (4.2 x 13.2 x 12.2 in).
Weight:	5.9 kg (13 lbs) with Multi-Function Cable; 6.8 kg (15 lbs) with paddles.
Warranty:	In North America: Comprehensive warranty including use of a loaner. Outside North America: consult ZOLL authorized representative.
Design Standards:	Designed to meet or exceed all AAMI specifications for defibrillators, UL 544, IEC 601, CSA standards for medical equipment, MIL-STD-810D; method 514.3, figure 514.3-35 (CAT. 6), swept sine, random vibration, universal helicopter, MIL-STD-810D, method 514.3 (CAT. 3), loose cargo transport without packaging.
Patient Safety:	All patient connections are fully isolated.
Temperature:	Operating: 0°C to 55°C. Storage: –40°C to 75°C. Humidity: 5% to 95% relative.

Product Information

ZOLL PD 1400	Pacemaker/Defibrillator standard configuration includes the following: 1 set standard anterior/anterior defibrillator paddles (adult, pediatric), 1 battery pack, 1 ECG cable, 1 pacer output cable, 1 set adult electrodes, 1 set pediatric electrodes, 1 roll recorder paper, 2 operator's guides, 1 tube defib gel, 1 in-service videotape.
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ZOLL PD 1400 with PowerCharger Package	PD 1400 standard configuration and AC PowerCharger with battery pack.
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Upgrades

• Advisory