

Iforia 3 VR-T

Single-chamber ICD



Product Highlights

- **Small size**

Increases the patients' comfort through a reduced device thickness.

- **SafeSync RF telemetry**

RF telemetry for wandless, time-saving and reliable data transmission at implantation and follow-up.

- **Automatic threshold monitoring**

Permits remote evaluation of ventricular pacing thresholds.

- **SelectSense Advanced**

Adaptation of sensing parameters to patients' individual needs via a sophisticated automatic sensitivity control (ASC) algorithm and several preset options.

- **DF4 connector**

Simplifies and shortens the implantation procedure and reduces material in the device pocket.

- **BIOTRONIK Home Monitoring®**

Enables wireless patient monitoring, including Home Monitoring-supported follow-ups, for early detection of clinical and device-related events.

Ordering information

| Model | Connectors | Volume/weight | Dimensions | Order number |
|---------------|------------------------|--------------------------|-----------------------|--------------|
| Iforia 3 VR-T | DF-1 (2x) IS-1 (1x) | 33 cm ³ /80 g | 65 mm x 55 mm x 11 mm | 383586 |
| Iforia 3 VR-T | DF4 (1x) | 31 cm ³ /80 g | 65 mm x 52 mm x 11 mm | 383588 |

Technical data

| Therapy and monitoring zones | |
|---|---|
| Bradycardia | 30 ... [5] ... 100 ... [10] ... 160 bpm |
| VT1 | OFF; 270 ... [10] ... 600 ms |
| VT2 | OFF; 270 ... [10] ... 500 ms |
| VF | OFF; 240 ... [10] ... 400 ms |
| Ventricular arrhythmia detection and redetection | |
| VT detection criteria | Interval; Onset; Stability; Sustained VT |
| Detection counter VT1 and VT2 | For VT1: 10 ... [2] ... 60 For VT2: 10 ... [2] ... 40 |
| Redetection counter VT1 and VT2 | 10 ... [2] ... 30 |
| Detection counter/Redetection counter VF | 6 out of 8; 8 out of 12; 10 out of 14; 12 out of 16; 16 out of 20; 18 out of 24; 20 out of 26; 22 out of 30; 24 out of 30 |
| Onset | OFF; 4 ... [4] ... 32 % |
| Stability | OFF; ± 8 ... [4] ... ± 48 ms |
| Sustained VT | OFF; 1 ... [1] ... 3; 5; 10 ... [10] ... 30 min |
| Tachycardia therapy (VT1/VT2 zone) | |
| ATP type | Burst; Ramp |
| ■ Attempts | OFF; 1 ... [1] ... 10 |
| ■ Number S1 | 1 ... [1] ... 10 |
| ■ Add S1 | OFF; ON |
| ■ R-S1 interval | 70 ... [5] ... 95 % |
| ■ S1 decrement | 5 ... [5] ... 40 ms |
| ■ Scan decrement | OFF; 5 ... [5] ... 40 ms |
| ATP optimization | OFF; ON |
| Minimum ATP interval | 200 ms (fixed) |
| Tachycardia therapy (VF zone) | |
| ATP type (ATP One Shot) | OFF; Burst; Ramp |
| Stability criterion | 12 % (fixed) |
| ■ Attempts | 1 (fixed) |
| ■ R-S1 interval | 70 ... [5] ... 95 % |
| ■ Number S1 | 1 ... [1] ... 10 |
| Cardioversion/defibrillation therapy | |
| Number of shocks | For VT zones: OFF; 1, 2, 6 or 8; for VF zone: 6 or 8 |
| Confirmation (in VT1, VT2, VF) | OFF; ON |
| Polarity (in VT1, VT2, VF) | Normal; Reversed; Alternating |
| Waveform (in VT1, VT2, VF) | Biphasic; Biphasic 2 |
| Shock path (in VT1, VT2, VF) | RV→Can+SVC; RV→Can; RV→SVC |
| Energy of 1st shock | OFF; 2 ... [2] ... 20 ... [5] ... 40 J |
| Energy of 2nd shock | OFF; 4 ... [2] ... 20 ... [5] ... 40 J |
| Post-shock mode | WI if permanent: WI(R); OFF |
| Post-shock pulse amplitude | 7.5 V (RV) |
| Post-shock pulse width | 1.5 ms (RV) |
| Post-shock duration | OFF; 10 s; 30 s; 1 min; 2 min; 5 min; 10 min |
| Pacing parameters | |
| Mode | WIR; WI; V00; OFF |
| Pulse amplitude (RV) | 0.5 ... [0.25] ... 4.0 ... [0.5] ... 6.0; 7.5 V |
| Pulse width (RV) | 0.4; 0.5 ... [0.25] ... 1.5 ms |
| Capture control (RV) | RV; OFF; ATM |
| Basic rate | 30 ... [5] ... 100 ... [10] ... 160 bpm |
| ■ Rate hysteresis | OFF; -5 ... [-5] ... -25 ... [-20] ... -65 bpm |
| ■ Scan/Repetitive | OFF; ON |
| ■ Night rate | OFF; 30 ... [5] ... 100 bpm |
| Sensing, RV | Std. - Standard; TWS - Enhanced T-wave suppression; VFS - Enhanced VF sensitivity; -Individually programmable sensing parameters |
| Sensor | Accelerometer |
| Diagnostic functions | |
| IEGM For SVT | OFF; ON |
| Periodic recording | OFF; 30 ... [30] ... 120; 180 days |
| IEGM Holter | 2 x 24 min (Far-field, RV) |
| Length of prehistory | Fixed: 30 s; 5 s (when onset was fulfilled or at induced episodes) |
| Physical parameters | |
| Telemetry | RF (SafeSync), programming head |
| Material | Titanium |
| Battery | 3.2 V; 1520 mAh |
| Longevity | 10.1 years ¹⁾ |
| ¹⁾ RV: 2.5 V/0.4 ms, 60 bpm, 500 Q; RV pacing: 15 %; 4 max. energy shocks/year; Home Monitoring: ON (daily transmission); diagnostics: ON | |
| Tests | |
| Different tests for | Impedance, Sensing, Pacing threshold, DFT (EPE/ATP) |
| Program sets | |
| Programs | Standard program; Individual program (1-3, individually programmable); First interrogated program; Safe program |

BIOTRONIK Home Monitoring®

| Transmission | |
|-------------------------------------|--|
| Transmitted data | Detection and therapy counters; Statistics; Lead measurement values; Battery and system status; ICD program parameters |
| Message types | |
| Trend message | Triggered automatically once every 24 hours |
| Event message | Triggered automatically after certain cardiac events |
| Test message | Triggered manually via programmer |
| Findings | |
| Device | Device status; Battery status; Programmer-triggered message received |
| Leads | Sensing amplitude (RV); Pacing impedance (RV); Daily shock impedance; Latest available impedance of a delivered shock; RV pacing threshold |
| Arrhythmias | Ventricular arrhythmia detected (VT1 monitoring, VT1, VT2, VF); Ineffective max. energy shock; RV pacing |
| Heart Failure Monitor | Mean ven. heart rate (24 h, at rest); Patient activity |
| Episodes | Ven. episode with two or more started shocks; Ven. episode with acceleration of ventricular rhythm; Ven. therapy episode with long duration; Ven. monitoring episode with long duration |
| Data transmission | HM follow-up trigger occurred; First message received; No message received for [days] |
| Programmer settings | |
| Home Monitoring | OFF; ON |
| Time of transmission/frequency | Std.; 00:00 ... [01:00] ... 23:00 hh:mm/403 MHz |
| IEGM for therapy episodes | OFF; ON |
| IEGM for monitoring episodes | OFF; ON |
| Home Monitoring-supported follow-up | |
| Cycle length/time of transmission | OFF, 30 days, 60 days, 90 days, 120 days, 180 days/ 1-5 individually programmable dates |
| Transmitted data | Periodic IEGM; rate histogram (V); device settings and statistics |