IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD) DEVICE

Entrant[™] Single-Chamber ICD



Compatible with myMerlinPulse™ App

Product Highlights

- Bluetooth[®] Low Energy (LE) communication enabling smartphone connectivity through data encryption
- DeFT Response[™] technology offers noninvasive programming options to optimize rescue therapy to each patient's unique physiology and changing conditions
- VF Therapy Assurance decreases time to treatment for arrhythmias in patients who are likely to be hemodynamically unstable
- Antitachycardia pacing (ATP) while charging and prior to charging in the VF zone extends the programming options for terminating tachyarrhythmias without a highvoltage shock
- ShockGuard[™] technology with DecisionTx[™] programming designed to reduce inappropriate therapy and minimize the need for programming adjustments at implant
 - SecureSense[™] RV lead noise discrimination detects sustained lead noise and records short bursts of oversensing that would otherwise go unnoticed or potentially lead to one or more inappropriate shocks
 - Far Field MD[™] morphology discrimination is designed to enhance SVT and VT discrimination for reduced inappropriate therapies

- SenseAbility[™] sensing algorithm feature provides the flexibility to fine-tune programming around T-wave oversensing without decreasing sensitivity
- DynamicTx[™] over-current detection algorithm automatically changes shock configurations to ensure delivery of high-voltage therapy when high current is detected
- MRI Ready device tested in combination with an MR Conditional lead for full-body scans using a 1.5T or 3T (Tesla) field strength MRI scanner*
- New battery provides higher capacity than previous QHR[‡] batteries to offer superior longevity/volume ratio
- DF4 connector designed to streamline defibrillation connections into a single terminal pin and reduce the number of set screws
- Cold can programmability provides an additional RV-SVC Shock Configuration to decouple the can from the shocking vector parameters
- Dual patient notification: audio notification through the device and visual notification via myMerlinPulse[™] app
- The CorVue[™] thoracic impedance feature measures transthoracic impedance changes over time to provide additional insight into the patient's heart failure condition

Ordering Information

Contents: Cardiac Pulse Generator

MODEL NUMBER	DIMENSIONS (H x W x T. MM)	WEIGHT (G)	VOLUME (CC)	CONNECTOR DEFIBRILLATION	CONNECTOR SENSE/PACE
CDVRA300Q	63 x 51 x 12	69	30	DF4	DF4

*See MRI Scan Parameters in MRI Ready Systems manual.



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Product Specifications

		Post-Therapy Pacing (Independ		able from Brauyca	rula allu ATP)		
Models	CDVRA300Q	Post-Shock Pacing Mode VVI; Off					
Felemetry	Bluetooth [®] LE Communication	Post-Shock Base Rate	30-100 in increments of 5 bpm				
Delivered/Stored Energy	36/39 J	Post-Shock Pacing Duration	0.5; 1; 2.5; 5; 7.5; or 10 min; Off				
/olume	30 cc	Dente mesticulte dente de la					
Veight	69 g	Device Testing/Induction Methods					
ize	63 x 51 x 12 mm	DC Fibber™ Induction Method	0.5-5.0 sec				
Defibrillation Lead Connections	DF4	Pulse Duration Burst Fibber Cycle Length					
ense/Pace Lead Connections	ise/Pace Lead Connections DF4		20-100 ms				
High-Voltage Can Electrically active titanium can		Noninvasive Programmed Stimulation (NIPS)	2-25 stimuli wit	h up to three extras	timuli		
PARAMETER	SETTINGS	Patient Notifiers					
ensing/Detection		Programmable Notifiers	BatteryAssuran	ce™ alert, Possible F	IV circuit damage, HV		
SenseAbility™ Sensing	Automatic Sensitivity Control adjustment for ventricular	(On; Off)			or Capacitor Maintena		
lgorithm	events				ead impedance out of r		
ow Frequency Attenuation	On; Off				range, SecureSense™		
'hreshold Start	Post-Sensed: 50; 62.5; 75; 100%				ventricular oversensi		
inconoid otart	Post-Paced: Auto; 0.2 - 3.0 mV			ing percentage great	ter than limit		
Decay Delay	Post-Sensed: 0-220 ms	Device Parameter Reset	On				
eeuy Deluy	Post-Paced: Auto; 0-220 ms	Entry into Backup VVI Mode	On				
entricular Sense	125; 157 ms	Auditory Duration	2; 4; 6; 8; 10; 12; 14; 16 sec				
Refractory	Num		2				
Detection Zones	3 zone programming - 1 zone, 2 zones or 3 zones	Notification					
Jones	(VT-1, VT-2, VF)	Number of Notifications	1-16				
WT Discriminators	Sudden Onset, Interval Stability; Sinus Interval History;	Time Between Notifications	10; 22 hours				
1 Discriminatorio	Morphology Discrimination (Far Field MD [™] or Original MD)						
	with Automatic Template Update	Electrograms and Diagnostics					
Discrimination Modes	On; Passive; Off	Stored Electrograms	Up to 15 minute	s (1 user programma	ble + discrimination		
SVT Upper Limit	150-240 bpm				mable pre-trigger data		
VT Discrimination Timeout	20s-60 min; Off				gers include lead noise		
Aonitor Mode	Detection, discrimination and diagnostics, no therapy delivery		detection, non-sustained ventricular oversensing, morphol template updates, magnet reversion, noise reversion				
ionitor niode	(VT or VT-1 zone)						
Reconfirmation	Continuous sensing during charging	Therapy Summary	Diagram of ther	apies delivered			
SecureSense™ RV Lead Noise Discrimination	On; On with Timeout; Passive; Off	Episodes Summary	Directory listing of up to 60 episodes with access to more details including stored electrograms				
/F Therapy Assurance	On: Off	Lifetime Diagnostics			vice-initiated charging		
Therapy Assurance	01, 01	Trends		nce, Ventricular paci			
ntite charactic Desing Thomas		Trendo			ular capture threshold,		
Antitachycardia Pacing Therapy					tTrend [™] reports up to		
ATP Configurations	Ramp; Burst; Scan; 1 or 2 schemes per VT zone	Histograms		n; Ventricular Hear			
ATP in VF Zone	ATP While Charging; ATP Prior to Charging; Off	Real-Time Measurements (RTM)	Pacing lead imp	edances High-volta	ore lead impedances: a		
TP Upper Rate Cutoff	150-300 bpm	fictur finne fifedburennenno (frffif)	Signal amplitud		.ge ieuu impedunceo, u		
Burst Cycle Length	Adaptive (50%-100%); Fixed (200-550 ms)		· ·				
Min. Burst Cycle Length	150-400 in increments of 5 ms	CorVue Thoracic Impedance	On; Off				
Readaptive	On; Off	CorVue Thoracic Impedance	Threshold 8-18	days			
Number of Bursts	1-15						
Number of Stimuli	2-20	MRI Settings					
Add Stimuli per Burst	On; Off	Tachy Therapy	Disabled				
ATP Pulse Amplitude	7.5 V independent from Bradycardia and	MRI Mode	VOO; Pacing O	ff			
	Post-Therapy Pacing	MRI Base Rate	30-100 bpm				
ATP Pulse Width	1.0 or 1.5 ms independently programmable from Bradycardia	MRI Pulse Amplitude	5.0 or 7.5 V				
	and Post-Therapy Pacing	MRI Pulse Width	1.0 ms				
igh-Voltage Therapy		MRI Pulse Configuration	Bipolar				
DynamicTx™ Over-current	On; Off	MRI Timeout	3; 6; 9; 12; 24 ho	urs: Off			
Detection Algorithm		witti i incout	0, 0, 7, 12, 27 110				
DeFT Response™ Technology	Programmable pulse width for P1/P2 and tilt						
High-Voltage Output Mode	Fixed Pulse Width; Fixed Tilt	MRI Scan Parameters ⁺	144 61157				
Waveform	Biphasic; Monophasic		MAGNET	RF TRANSMIT	SCAN DECION		
RV Polarity	Cathode (-); Anode (+)	LEAD MODEL	(TESLA)	CONDITIONS	SCAN REGION		
Electrode Configuration	RV to Can; RV to SVC/Can; RV to SVC	Durata™ Defibrillation Lead					
Producendie Decine		7120Q (lead lengths: 58, 65 cm)					
Bradycardia Pacing		7122Q (lead lengths: 58, 65 cm)	1.5T / 3T	Normal			
ermanent Modes	VVI(R); Off	, 122Q (icau iclights: 50, 05 clll)		Operating	Full-body		
emporary Modes	VVI; VOO; Off	Optisure™ Lead		Mode			
Activity Sensor	On; Passive; Off	LDA220Q (lead lengths: 58, 65 cm)				
Programmable Rate Parameters	Base Rate (bpm); Rest Rate (bpm); Maximum Sensor Rate (bpm); Pulse Amplitude (RV) (V); Pulse Width (RV) (ms);	LDA210Q (lead lengths: 58, 65 cm)					
	Hysteresis Rate (bpm); Rate Hysteresis with Search						
ulse Amplitude	0.25-7.5 V	+For additional information about s					
ulse Width	0.05, 0.1-1.5 ms	parameters, warnings, precautions, adverse conditions to MRI scanning, and potential adverse					
	On; Off	events, please refer to the Abbott MRI Ready Systems Manual at medical.abbott/manuals.					
entricular AutoCapture™							
entricular AutoCapture™ acing System	01; 011						
entricular AutoCapture™ acing System ate Responsive V Pace	On; Off						



Rx Only

Intended Use: The Implantable Cardioverter Defibrillator (ICD) devices are intended to provide ventricular antitachycardia pacing and ventricular cardioversion/defibrillation.

The myMerlinPulse™ mobile application is intended for use by people who have an Abbott Medical implanted heart device and access to a mobile device. The app provides remote monitoring capability of the implanted heart device by transmitting information from the patient's implanted heart device to the patient's healthcare provider.

Indications: The ICD devices are indicated for automated treatment of life-threatening ventricular arrhythmias.

In addition, dual chamber ICD devices with the AT/AF detection algorithm are indicated in patients with atrial tachyarrhythmias or those patients who are at significant risk of developing atrial tachyarrhythmias.

MR Conditional ICDs are conditionally safe for use in the MRI environment when used in a complete MR Conditional system and according to instructions in the MRI-Ready Systems manual. Scanning under different conditions may result in severe patient injury, death or device malfunction.

The myMerlinPulse™ mobile application is indicated for use by patients with supported Abbott Medical implanted heart devices.

Contraindications: Contraindications for use of the pulse generator system include ventricular tachyarrhythmias resulting from transient or correctable factors such as drug toxicity, electrolyte imbalance, or acute myocardial infarction.

The myMerlinPulseTM mobile application is contraindicated for use with any implanted medical device other than supported Abbott Medical implanted heart devices.

Adverse Events: Possible adverse events associated with the implantation of the pulse generator system include the following: Arrhythmia (for example, accelerated or induced), Bradycardia, Cardiac or venous perforation, Cardiac tamponade, Cardiogenic shock, Death, Discomfort, Embolism, Endocarditis, Erosion, Exacerbation of heart failure, Excessive fibrotic tissue growth, Extracardiac stimulation (phrenic nerve, diaphragm, pectoral muscle), Extrusion, Fluid accumulation within the device pocket, Formation of hematomas, cysts, or seromas, Heart block, Hemorrhage, Hemothorax, Hypersensitivity, including local tissue reaction or allergic reaction, Infection, Keloid formation, Myocardial damage, Nerve damage, Occlusion/Thrombus, Pericardial effusion, Pericarditis, Pneumothorax, Pulmonary edema, Syncope, Thrombosis, Valve damage. Complications reported with direct subclavian venipuncture include pneumothorax, hemothorax, laceration of the subclavian artery, arteriovenous fistula, neural damage, thoracic duct injury, cannulation of other vessels, massive hemorrhage and rarely, death. Among the psychological effects of device implantation are imagined pulsing, depression, dependency, fear of premature battery depletion, Conductor fracture, Device-programmer communication failure, Elevated or rise in defibrillation/cardioversion threshold, Inability to defibrillate or pace, Inability to interrogate or program due to programmer or device malfunction, Incomplete lead connection with pulse generator, Inhibited therapy including defibrillation and pacing, Inappropriate therapy (for example, shocks and antitachycardia pacing [ATP] where applicable, pacing), Interruption of function due to electrical or magnetic interference, to high rate pacing (for example dyspnea or discomfort), Lead abrasion, Lead insulation damage, Lead migration or lead dislodgement, Loss of device functionality due to component failure, Pulse generator migration, Rise in DFT threshold, Rise in pacing threshold and exit block, Shunting of energy from d

No potential adverse events have been identified with use of the myMerlinPulse™ mobile application.

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