

Gallant™ HF CRT-D

CDHFA500D



Compatible with myMerlinPulse™ app

Product Highlights

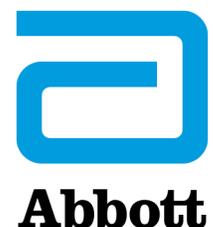
- Bluetooth® Low Energy (LE) communication enabling Smartphone Connectivity through data encryption.
- SyncAV™ Plus CRT technology offers dynamic AV timing with adaptive programming to ensure BiV pacing.
- Improved shape with reduced volume and thickness.
- 40J delivered energy safety shock option for enhanced safety margin.
- 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 further extends the programming options for terminating tachyarrhythmias without a high-voltage 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 algorithm detects sustained lead noise and short bursts of oversensing that would otherwise go unnoticed or potentially lead to one or more inappropriate shocks.
 - Far Field MD™ morphology discrimination and chamber onset discrimination enhances 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 MR Conditional leads 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.
- The CorVue™ thoracic impedance feature measures transthoracic impedance changes over time to provide additional insight into the patient's heart failure condition.
- Cold can programmability provides an additional RV-SVC shock configuration to decouple the can from the shocking vector parameters in cases of lead problems.
- Premature Atrial Contraction (PAC) Response to avoid pacing the atrium in a vulnerable zone.
- Physiologic rate responsive AV Delay and PVARP.
- QuickOpt™ timing cycle optimization provides quick and effective optimization at the push of a button.
- Dual patient notification: audio notification through the device and visual notification via myMerlinPulse app.

Ordering Information

Contents: Cardiac Pulse Generator

MODEL NUMBER	DIMENSIONS (L X W X H) (MM)	WEIGHT (G)	VOLUME (CC)	CONNECTOR DEFIBRILLATION	CONNECTOR SENSE/PACE	CONNECTOR PACE-LEFT VENTRICLE
CDHFA500D	75 × 51 × 12	73	34	DF4	DF4; IS-1	IS-1

*See MRI Scan Parameters in MRI-Ready Systems Manual.



Product Specifications

PARAMETER SPECIFICATIONS	
Model	CDHFA500D
Telemetry	Bluetooth® LE Communication
Delivered/Stored Energy	40/45 J
Volume	34 cc
Weight	73 g
Size	75 × 51 × 12 mm
Defibrillation Lead Connection/ Ventricular Sense/Pace	DF4-LLHH
LV Lead Connections	IS-1
Atrial Sense/Pace Lead Connections	IS-1 in-line bipolar
High Voltage Can	Electrically active titanium can
Parameter	Settings
Biventricular Pacing	
V-V Timing	Simultaneous ¹ ; RV First; LV First
Interventricular Pace Delay	RV First 10–80/LV First 15–80 ms
Ventricular Sensing	RV only (not programmable)
Ventricular Pacing Chamber	RV only; LV only; Biventricular
SyncAV™ Plus CRT Technology Delta	If Type = Percentage: -10; -15;...-70% If Type = Fixed: -10; -20;...-120 ms; Off
MPP PVAB	125-260 ms
AF Management	
AF Suppression™ Pacing	On; Off
No. of Overdrive Pacing Cycles	15-40
Maximum AF Suppression Rate	80-150 bpm
Sensing/Detection	
SenseAbility™ Sensing Algorithm	Automatic sensitivity control adjustment for atrial and ventricular events
Low Frequency Attenuation	On; Off
Threshold Start	Post-Sensed: 50; 62.5; 75; 100%; Post-Paced, Atrial: 0.2-3.0 mV Post-Paced, Ventricular: Auto, 0.2-3.0 mV
Decay Delay	Post-Sensed: 0-220 ms Post-Paced, Atrial: 0-220 ms Post-Paced, Ventricular: Auto, 0-220 ms
Ventricular Sense Refractory	125; 157 ms
Detection Zones	3 zone programming – 1 zone; 2 zones, or 3 zones (VT-1; VT-2; VF)
SVT Discriminators	AV Rate Branch; Arrhythmia Onset (Chamber Onset or Sudden Onset); Interval Stability; AV Association Morphology; Discrimination (Far Field MD™ Morphology Discrimination or Original MD) with Automatic Template Update
Monitor Mode	Detection, discrimination, and diagnostics, no therapy delivery (VT or VT-1 zone)
Sensing/Detection	
Discrimination Modes	On; Passive; Off
SVT Upper Limit	150-240 bpm
SVT Discrimination Timeout	20s-60 min; Off
Reconfirmation	Continuous sensing during charging
SecureSense™ RV Lead Noise Discrimination Algorithm	On; On with Timeout; Passive; Off
VF Therapy Assurance	On; Off

¹ LV first with 10 ms interventricular delay.

Product Specifications

Antitachycardia Pacing Therapy	
ATP Configurations	Ramp; Burst; Scan; 1 or 2 schemes per VT zone
ATP in VF Zone	ATP While Charging; ATP Prior to Charging; Off
ATP Upper Rate Cutoff	150–300 bpm
Burst Cycle Length	Adaptive (50%-100%); Fixed (200-550 ms)
Min. Burst Cycle Length	150-400 in increments of 5 ms
Readaptive	On; Off
Number of Bursts/Stimuli	1-15 with 2–20 Stimuli
Add Stimuli per Burst	On; Off
ATP Pulse Amplitude	7.5 V independent from bradycardia and post-therapy pacing
ATP Pulse Width	1.0 or 1.5 ms independently programmable from bradycardia and post-therapy pacing
High-Voltage Therapy	
DynamicTx™ Over-current Detection Algorithm	On; Off
DeFT Response™ Technology	Programmable pulse width for P1/P2 and tilt
High-Voltage Output Mode	Fixed Pulse Width; Fixed Tilt
Waveform	Biphasic; Monophasic
RV Polarity	Cathode (-); Anode (+)
Electrode Configuration	RV to Can; RV to SVC/Can; RV to SVC
Bradycardia Pacing	
Permanent Modes	DDD(R); DDT(R); DDI(R); VVT(R); VVI(R); AAI(R); Off
Temporary Modes	DDD; DDT; DDI; VVT; VVI; AAI; AAT; DOO; VOO; AOO; Off
Activity Sensor	On; Passive; Off
Programmable Rate and Delay Parameters	Base Rate (bpm); Rest Rate (bpm); Maximum Tracking Rate (bpm); Max Trigger Rate (bpm); Maximum Sensor Rate (bpm); Paced AV Delay (ms); Sensed AV Delay (ms); Rate Responsive AV Delay; Hysteresis Rate (bpm); Rate Hysteresis with Search
Pulse Amplitude	0.25-7.5 V
Pulse Width	0.05, 0.1-1.5 ms
LVCap™ Confirm Feature, LVCap™ 2 Confirm Feature	Setup; On; Monitor; Off
RVCap™ Confirm Feature	Setup; On; Monitor; Off
ACap™ Confirm Feature	On; Monitor; Off
Auto Mode Switch (AMS)	DDI(R); DDT(R); VVI(R); VVT(R); Off
Atrial Tachycardia Detection Rate	110-300 bpm
AMS Base Rate	40; 45; ... 135 bpm
PMT Detection/Termination	Atrial Pace; Passive; Off
Rate Responsive PVARP	Low; Medium; High; Off
Rate Responsive V Pace Refractory	On; Off
PAC Response	On; Off
PAC Response interval	200-400 ms
Shortest AV Delay	25-120 ms
Post-Therapy Pacing (Independently programmable from Bradycardia and ATP)	
Post-Shock Pacing Mode	AAI; VVI; DDI; or DDD; Off
Post-Shock Base Rate	30-100 bpm
Post-Shock Pacing Duration	0.5; 1; 2.5; 5; 7.5; or 10 min; Off
Device Testing/Induction Methods	
DC Fibber™ Induction Method Pulse Duration	0.5-5.0 sec
Burst Fibber Cycle Length	20-100 ms
Noninvasive Programmed Stimulation (NIPS)	2-25 stimuli with up to three extra stimuli

Product Specifications

Patient Notifiers	
Programmable Notifiers (On; Off)	BatteryAssurance™ alert, Possible HV circuit damage, HV charge timeout, Long charge time for Capacitor Maintenance, Device at ERI, Atrial pacing lead impedance out of range. Ventricular pacing lead impedance out of range, High-voltage lead impedance out of range, AT/AF Episode duration, AT/AF Burden, High ventricular rate during AT/AF, SecureSense™ lead noise detection, Non-sustained ventricular oversensing, Ventricular pacing percentage greater than limit
Device Parameter Reset	On
Entry into Backup VVI Mode	On
Auditory Duration	2; 4; 6; 8; 10; 12; 14; 16 sec
Number of Audio alerts per Notification	2
Number of Notifications	1–16
Time Between Notifications	10; 22 hours
Electrograms and Diagnostics	
Stored Electrograms	30 minutes (2 user programmable + discrimination channel), up to one minute programmable pre-trigger data per VT/VF electrograms; additional triggers include lead noise detection, non-sustained ventricular oversensing, morphology template updates, atrial episode, PMT termination, PAC response, magnet reversion, noise reversion
Therapy Summary	Diagram of therapies delivered
Episodes Summary	Directory listing of up to 60 episodes with access to more details including stored electrograms
Lifetime Diagnostics	History of bradycardia events and device-initiated charging
AT/AF Burden Trend	Trend data and counts
Ventricular HV Lead Impedance	Multi-Vector Trend Data
Histograms and Trends	Event Histogram; AV Interval Histogram; Mode Switch or AT/AF Duration Histogram; Peak Filtered Atrial Rate during Atrial Arrhythmia Histogram; Atrial Heart Rate Histogram; Ventricular Heart Rate Histogram; AT/AF Burden; Exercise and Activity Trending; V Rates during AMS; DirectTrend™ reports up to 1 year
PMT Data	Information regarding PMT detections
Real-Time Measurements (RTM)	Pacing lead impedances; high-voltage lead impedances; and signal amplitudes
CorVue™ Thoracic Impedance	On; Off
CorVue Thoracic Impedance Threshold	8-18 days
MRI Settings	
Tachy Therapy	Disabled
MRI Mode	DOO; VOO; AOO; Pacing Off
MRI Base Rate	30-100 bpm
MRI Paced AV Delay	25-110 ms
MRI RA and RV Pulse Amplitude	5.0 or 7.5 V
MRI RA and RV Pulse Width	1.0 ms
MRI RA and RV Pulse Configuration	Bipolar
MRI V Pacing Chamber	RV Only
MRI Timeout	3; 6; 9; 12; 24 hours; Off

Gallant™ HF

CRT-D

CDHFA500D

CRT DEVICE

MRI SCAN PARAMETERS [§]			
Lead Model	Magnet (Tesla)	RF Transmit Conditions	Scan Region
Durata™ Defibrillation Lead	1.5 T / 3 T	Normal Operating Mode	Full-body
7120Q (lead lengths: 58, 65 cm)			
7122Q (lead lengths: 58, 65 cm)			
Optisure™ Defibrillation Lead			
LDA220Q (lead lengths: 58, 65 cm)			
LDA210Q (lead lengths: 58, 65 cm)			
Tendril™ STS Pacing Lead			
2088TC (lead lengths: 46, 52, 58 cm)			
UltiPace™ Pacing Lead			
LPA1231 (lead lengths: 46, 52, 58, 65 cm)			
IsoFlex™ Optim™ Pacing Lead			
1944 (lead lengths: 46, 52 cm)			

[§] For additional information about specific MR Conditional CRT-Ds and leads, including scan parameters, warnings, precautions, adverse conditions to MRI scanning, and potential adverse events, please refer to the Abbott MRI-Ready Systems Manual at [medical.abbott/manuals](https://www.medical.abbott/manuals)

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

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