Eon High Capacity Rechargeable IPG

The Eon® IPG—the highest-capacity rechargeable IPG[1]—is designed to maximize pain coverage and sustain therapy over the long term for virtually any pain profile.

	ANS Eon	Medtronic RestoreADVANCED	Boston Scientific
Battery capacity	**325 mAhr**	300 mAhr	No high-capacity rechargeable neurostimulator available[b]
Battery life approval	**10 years, open-ended**[a]	9-year end-of-life	
Battery life approval settings	**High**	Medium	
Current delivery	Constant current	Constant voltage	
Maximum recommended implant depth	**2.5 cm**	1.0 cm	
Contacts	16	16	
Amplitude	**0-25.5 mA**	0-10.5 V	
Pulse width	50-500 µs	50-450 µs	
Frequency	**2-1200 Hz**	2-130 Hz	
Maximum sustainable frequency	**1200 Hz for 1 stim set** **600 Hz for 2 stim sets** **300 Hz for 4 stim sets** **200 Hz for 6 stim sets** **150 Hz for 8 stim sets**	130 Hz for 1 stim set 130 Hz for 2 stim sets 65 Hz for 4 stim sets	
Maximum amplitude with single cathode at 524 ohms	**24.7 mA**	21.8 mA	
Recharge interval	**Days between necessary recharges**		
Low (3 mA, 200 µs, 40 Hz)	**174**	156	
Medium (6.5 mA, 225 µs, 70 Hz)	**56**	51	
High (8.6 mA, 238 µs, 160 Hz)	**14**	*	

The Eon IPG is best in class.

a At least 24 hours between recharges at 10 years at high settings.
b High capacity is defined as a battery capacity greater than 200 mAhr.

* Medtronic RestoreADVANCED cannot achieve this high setting.

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References

1. Beddar M. Overview of rechargeable SCS systems. Presented at: Annual meeting of the North American Neuromodulation Society; Nov. 10-12, 2005; Washington, DC.

Chart sources

1. Advanced Neuromodulation Systems. Bench test data, lab notebook 2014. Plano, Tex.
2. Advanced Neuromodulation Systems. *Eon® Neurostimulation System Clinician's Manual*. Plano, Tex.; 2008.
3. Beddar M. Overview of rechargeable SCS systems. Presented at: Annual meeting of the North American Neuromodulation Society; Nov. 10-12, 2005; Washington, DC.
4. Medtronic. Checkmate [brochure]. Minneapolis, Minn.; 2008.
5. Medtronic. Recharge interval [brochure]. Minneapolis, Minn.; 2005.
6. Medtronic. *Restore Implant Manual*. Minneapolis, Minn; 2006.
7. Medtronic. Restore=Power [brochure]. Minneapolis, Minn.; 2006.

ATRIAL FIBRILLATION CARDIAC RHYTHM MANAGEMENT CARDIAC SURGERY CARDIOLOGY NEUROMODULATION

St. Jude Medical, Inc.
Global Headquarters
One Lillehei Plaza
St. Paul, Minnesota 55117
USA
651 483 2000
651 490 4310 Fax

Neuromodulation Division
6901 Preston Road
Plano, Texas 75024
USA
972 309 8000
972 309 8150 Fax

sjmneuro.com

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Indications for Use: Chronic, intractable pain of the trunk and limbs. **Contraindications:** Demand-type cardiac pacemakers, patients who are unable to operate the system or who fail to receive effective pain relief during trial stimulation. **Warnings/Precautions:** Diathermy therapy, cardioverter defibrillators, magnetic resonance imaging (MRI), explosive or flammable gases, theft detectors and metal screening devices, lead movement, operation of machinery and equipment, postural changes, pediatric use, pregnancy, and case damage. Patients who are poor surgical risks, with multiple illnesses, or with active general infections should not be implanted. **Adverse Events:** Painful stimulation, loss of pain relief, surgical risks (e.g., paralysis). Clinician's manual must be reviewed prior to use for detailed disclosure. **Caution:** U.S. federal law restricts this device to sale and use by or on the order of a physician.

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