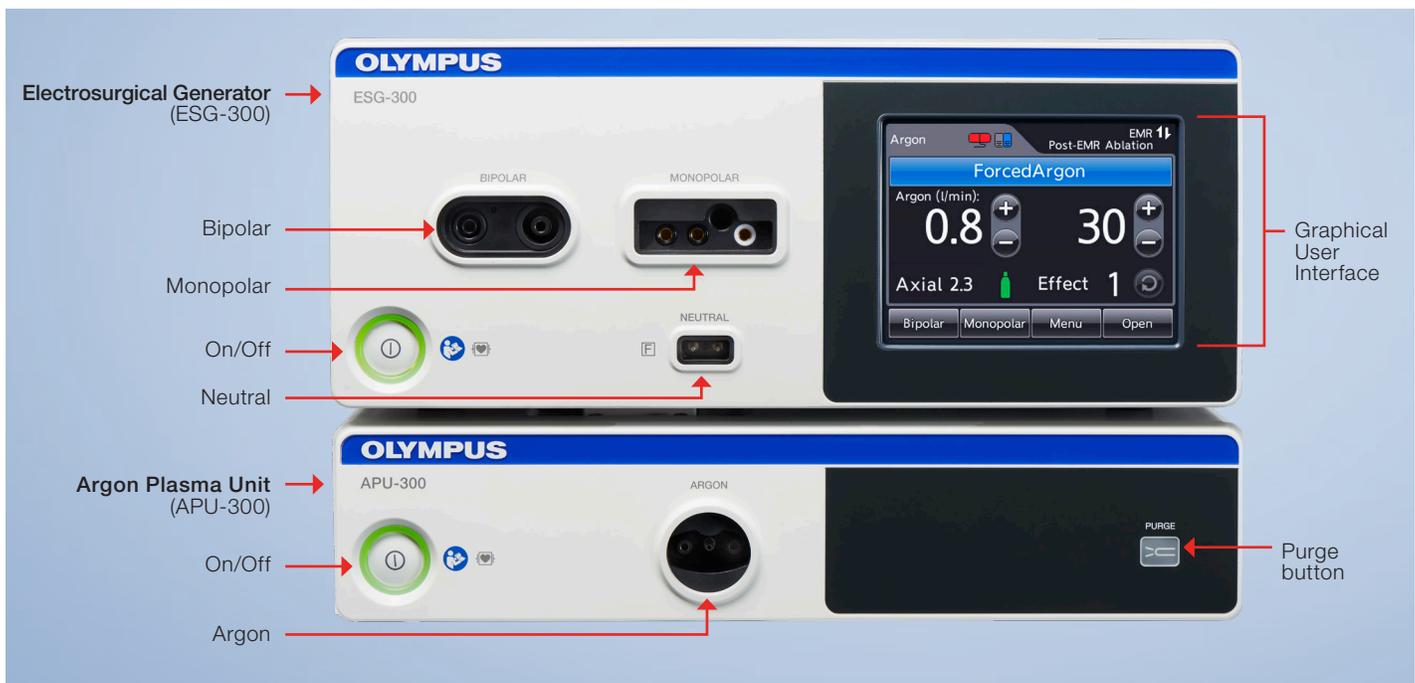


ESG-300 (Electrosurgical Generator)

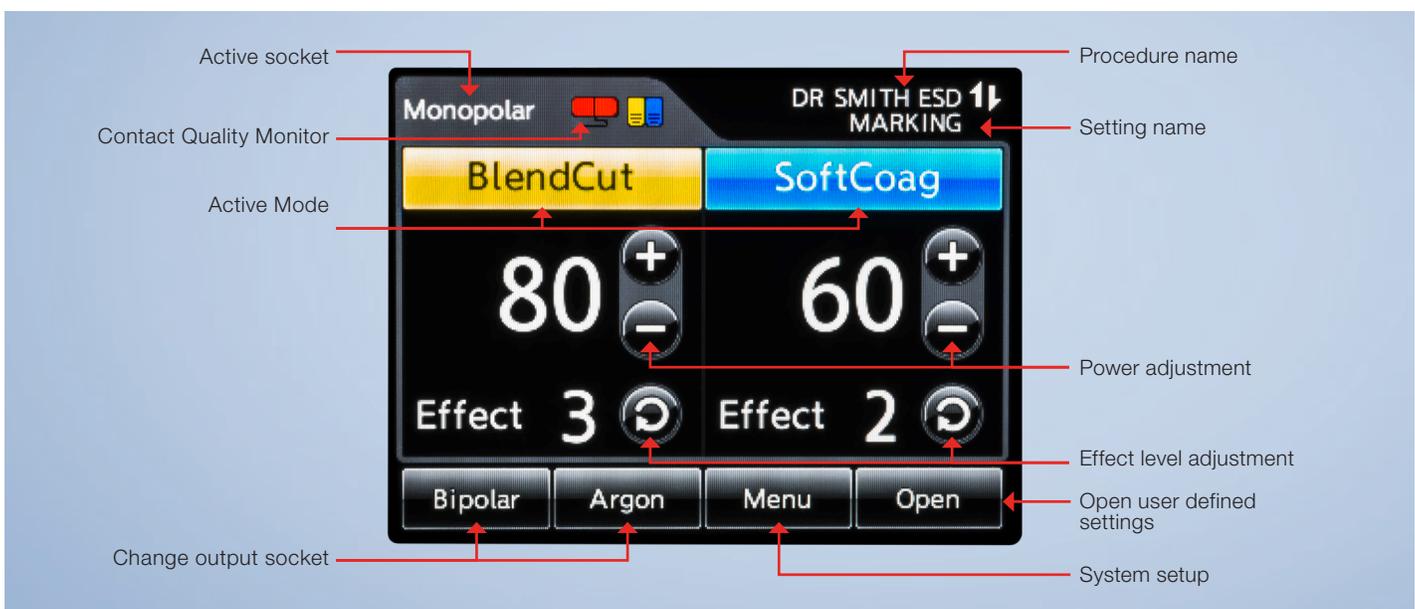
Quick Reference Guide

CAUTION: This guide is only a summary of the instructions for use of the ESG-300 Electrosurgery Generator. Be sure to reference the instruction manual that was included with your product purchase.

ESG-300 and APU-300 Display Interface



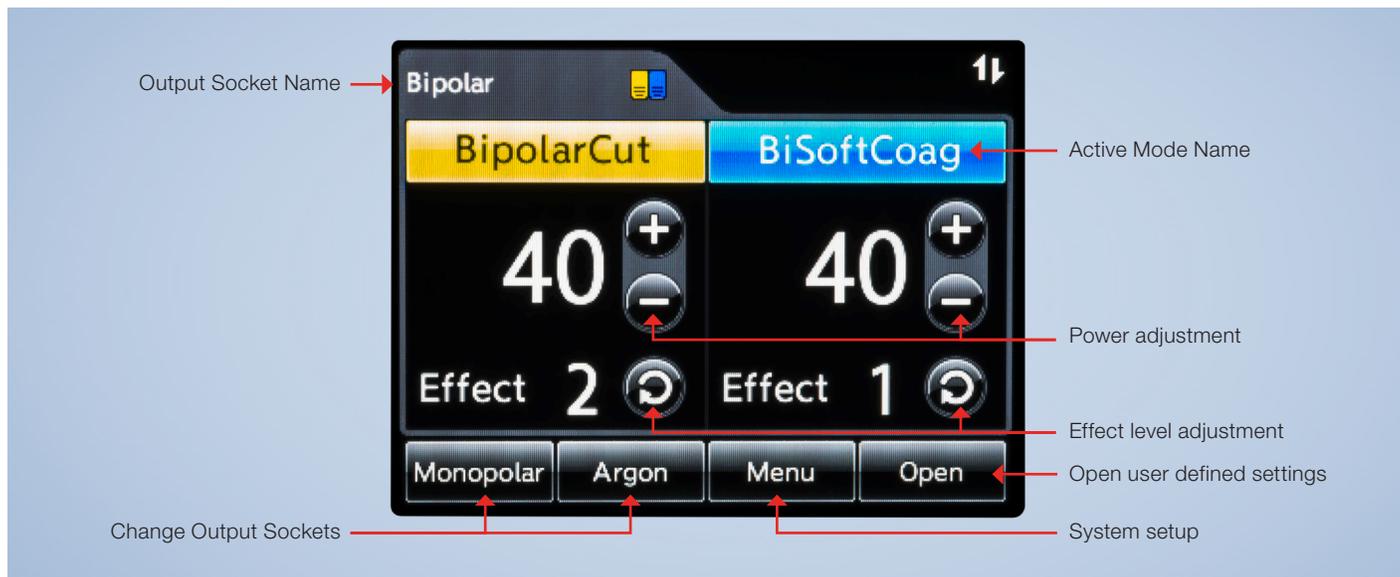
Monopolar Home Screen



ESG-300 (Electrosurgical Generator)

Quick Reference Guide

Bipolar Home Screen



Argon Home Screen



ESG-300 (Electrosurgical Generator)

Quick Reference Guide

ESG-300 System Operating Steps

1 Turn on the ESG-300 & APU-300.

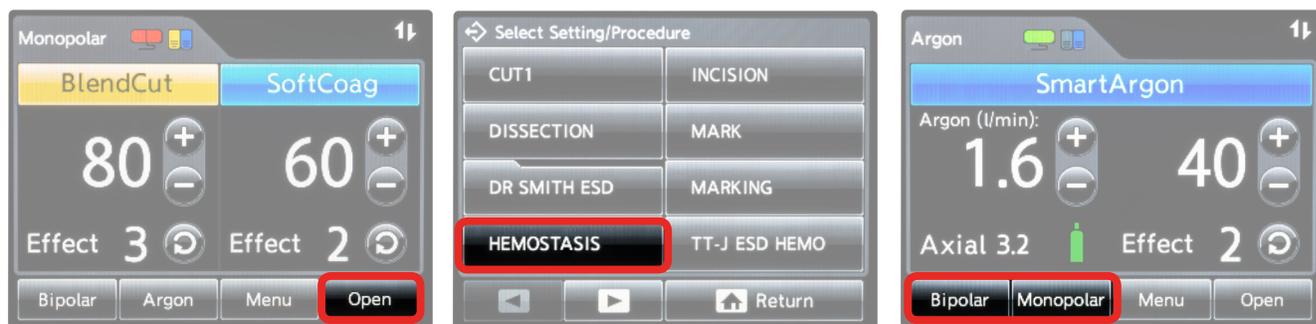


2a Select Mode: Monopolar; Bipolar; Argon



Select mode by tapping on the desired mode located on the bottom of the touch screen

2b (Optional) Select User Defined Setting or Procedure.



1) Select "Open"

2) Select setting or procedure

3) Verify setting is correct

ESG-300 (Electrosurgical Generator)

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ESG-300 System Operating Steps

3 Mode Menu



1) Select the mode by tapping on colour bar on the touch screen



2) In the menu screen, tap to select the desired mode



3) Once selected, the home screen will display the change

4 Changing the Power Level



Select to adjust power level

5 Changing the Effect

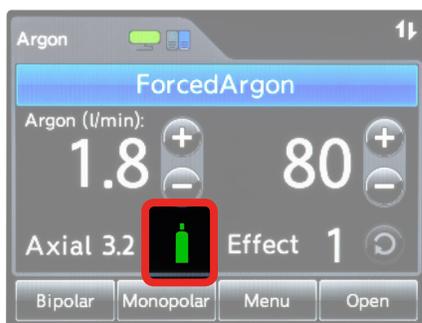


Select to adjust effect

6 Argon Plasma Applications



1) Open the argon tank

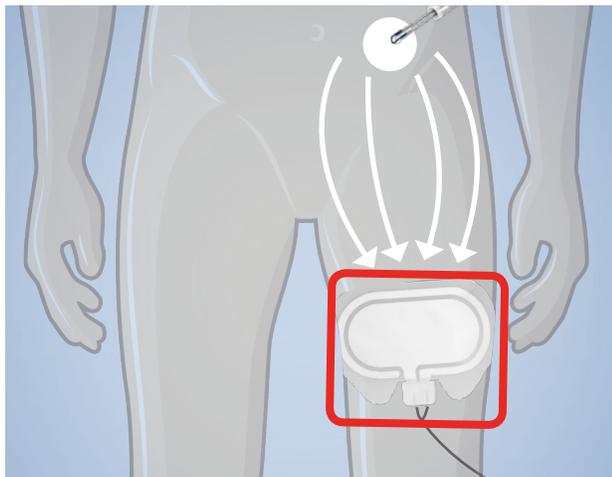


2) Confirm supply connection indicator displays connection and tank status

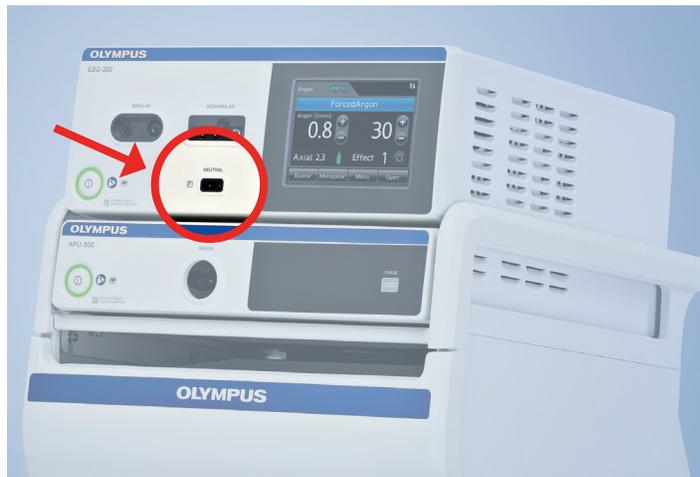
ESG-300 (Electrosurgical Generator) Quick Reference Guide

ESG-300 System Operating Steps

7



1) Apply the neutral electrode to the patient



2) Connect to the ESG-300

8 Monitor Neutral Electrodes: Contact Quality Monitor



If the red neutral electrode lights up & alarm tone sounds:

- Is the neutral electrode correctly connected to the device?
- Does the neutral electrode have sufficient contact to the skin?



Correct = Green

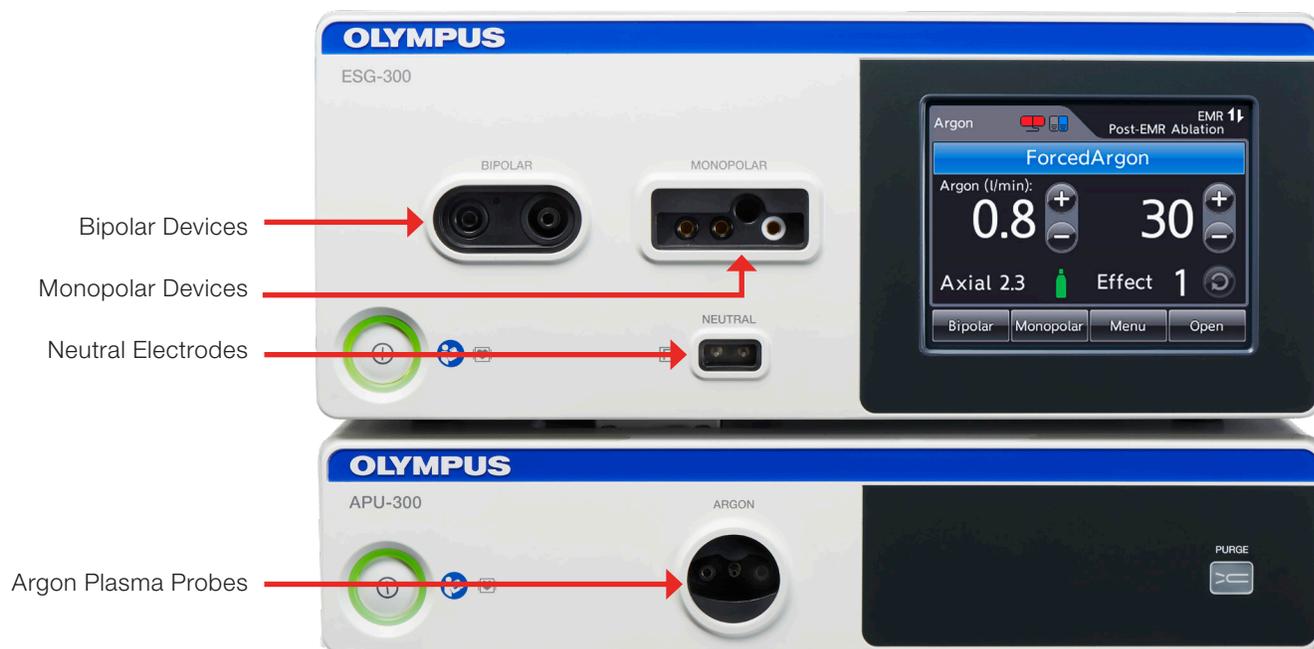


Error = Red

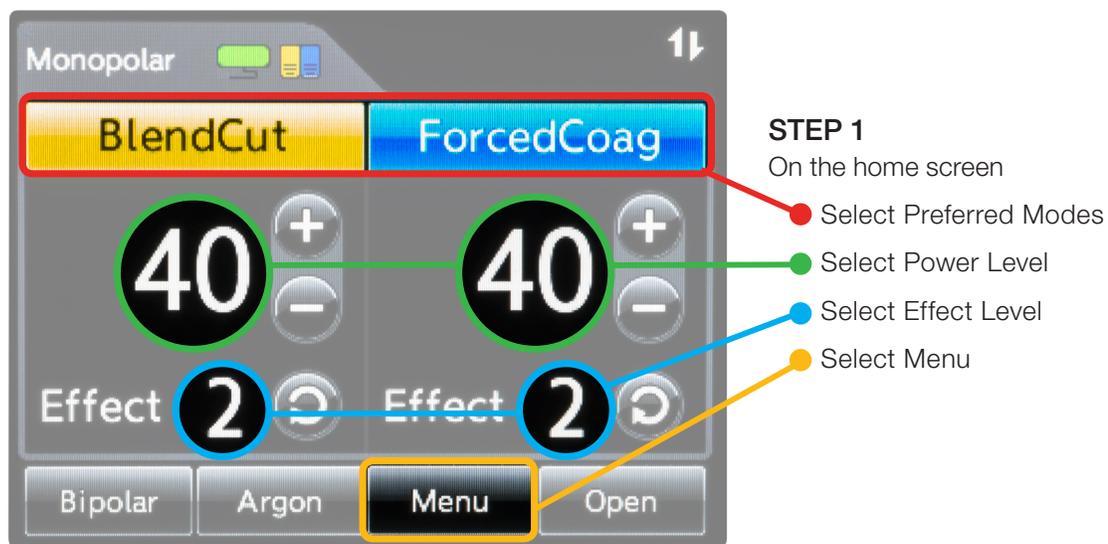
ESG-300 (Electrosurgical Generator) Quick Reference Guide

ESG-300 System Operating Steps

9 Connect device in appropriate receptacle



Creating User Defined Settings



ESG-300 (Electrosurgical Generator)

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Creating User Defined Settings



STEP 2
Edit Settings/Procedures screen

- Select "New" setting



STEP 3
Save Setting Screen

- Enter the setting name
- Select "OK"



STEP 4
Edit Settings/Procedures screen

- Select "Return" to return to the Home Screen

Creating User Defined Procedures

A user-defined procedure is a compilation of user-defined settings.



STEP 1
On the Home screen

- Select "Menu"



STEP 2
Edit Settings/Procedures screen

- Select "New" Procedure



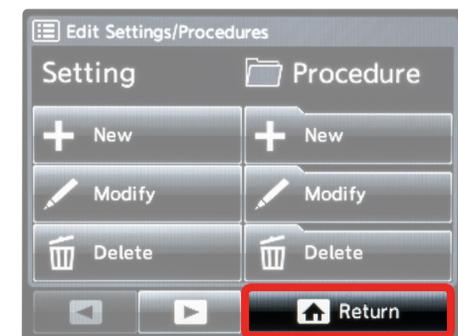
STEP 3
New Procedures screen

- Use up/down to highlight the setting
- Use arrow to move the setting on the left into the procedure column on the right



STEP 5
Save Procedure Screen

- Enter the procedure name
- Select "OK"



STEP 6
Edit Settings/Procedures screen

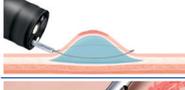
- Select "Return" to return to the Home Screen

ESG-300 (Electrosurgical Generator)

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ESG-300 Operation Settings

Basic Procedures

Procedure	Instrument or Technique	Mode	Power	Effect
 Snare Polypectomy: Sessile polyp	Close the snare slowly and gently	PulseCut Slow	120	2
 Snare Polypectomy: Pedunculated polyp	Close the snare slowly and gently	ForcedCoag	20	4
 Endoscopic Mucosal Resection (EMR)	Close the snare slowly and gently	PulseCut Slow	120	2
 Haemostasis	Coagrasper	SoftCoag	50	3
 Sphincterotomy	Sphincterotome	PulseCut Fast	120	2

Endoscopic Submucosal Dissection (ESD)

Procedure	Instrument or Technique	Mode	Power	Effect
 Marking	Knife (apply gentle pressure)	ForcedCoag	20	2
		SoftCoag	50	3
 Pre-Cut/Incision	Knife	PulseCut Fast	120	2
		BlendCut	30	2
 Submucosal Dissection	Knife	PowerCoag	30	2
 Haemostasis	Closed Knife	PowerCoag	30	2

Peroral Endoscopic Myotomy (POEM)

Procedure	Instrument or Technique	Mode	Power	Effect
 Incision	Knife	PulseCut Fast	120	2
 Dissection/Tunneling	Knife	SprayCoag	40	2
 Myotomy	Knife	PulseCut Fast	120	2
 Haemostasis	Coagrasper	SoftCoag	50	3

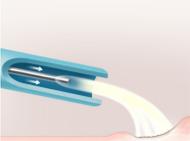
The above settings are examples based upon previous general clinical usage of the device. Please note that clinical staff are solely responsible for selection of an appropriate mode and power level, dependent upon the instrument being used and the condition of the tissue being treated. Due to the heterogeneity of instruments and clinical conditions, Olympus cannot accept liability for clinical risks arising from the use of these example settings.

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ESG-300 Operation Settings

Argon Plasma Coagulation (APC)

Procedure	Instrument or Technique	Mode	Power	Effect
 Diffuse bleeding in the right colon/duodenum	Activate MAPC probe within a 2-5 mm distance from tissue	SmartArgon	120	4
 Diffuse bleeding in the remaining colon and rectum	Activate MAPC probe within a 2-5 mm distance from tissue	PulsedArgon Fast	30	N/A
 GAVE/radioproctitis	Activate MAPC probe within a 2-5 mm distance from tissue	PulsedArgon Fast	30	N/A
 Angiodysplasia	Activate MAPC probe within a 2-5 mm distance from tissue	PulsedArgon Fast	30	N/A
 Tumour Reduction	Activate MAPC probe within a 2-5 mm distance from tissue	ForcedArgon	50	N/A
 Barrett's Oesophagus	Activate MAPC probe within a 2-5 mm distance from tissue	PulsedArgon Fast	40	N/A

The above settings are examples based upon previous general clinical usage of the device. Please note that clinical staff are solely responsible for selection of an appropriate mode and power level, dependent upon the instrument being used and the condition of the tissue being treated. Due to the heterogeneity of instruments and clinical conditions, Olympus cannot accept liability for clinical risks arising from the use of these example settings.

ESG-300 (Electrosurgical Generator)

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ESG-300 Monopolar Modes



The wired foot switch is an accessory and must only be used in conjunction with the compatible ESG-300 to activate the generator.

The foot switch consists of:

- Yellow cut pedal to activate the selected cutting mode
- Blue coagulation pedal to activate the selected coagulation mode
- Toggle button to switch between user-defined settings within the procedure
- Foot switch plug (7-pin connector) to connect the foot switch with the ESG-300. The length of the connecting cable is 4m



YELLOW PEDAL

Press to activate the selected **CUTTING** mode

BLUE PEDAL

Press to activate the selected **COAGULATION** mode



PureCut	PulseCut	BlendCut	PowerCoag	ForcedCoag	SprayCoag	SoftCoag
Continuous cutting	Controlled cutting with an intermittent duty cycle of different duration	Cutting of varying tissue structures with increased haemostasis capacities	Superficial coagulation with increased dissection capability	Superficial pinpoint coagulation	High peak voltage for superficial coagulation without contact between the HF instrument and the tissue	Deeper coagulation
High Power Cut Support (HPCS) – immediate cutting Fast Spark Monitor (FSM) – optimised cutting power			Versatile coagulation technology			

For complete product details see Instructions for Use.



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