





# DC/DC Power Supplies Lineup

- Switching Regulators
  - Single Buck Converters (Integrated Switch)
    - $I_o \leq 8.0A$
    - $I_o \leq 3.0A$
    - $I_o \leq 2.0A$
    - $I_o \leq 1.0A$
  - Dual Buck Converters (Integrated Switch)
  - Buck Controllers (External Switch)
  - Boost / Buck-Boost and Inverting Converters / Controllers
- Isolated Power Supplies
- Power Modules

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Application Engineer Division  
Application Department 1  
Regulator Group

- Ver. 7.10 -

# Available ROHM Buck DCDC Evaluation Kits



-  - PWM Mode
-  - Light-Load Efficiency

- Features (Unless otherwise specified)
- Soft Start
  - Synchronous Rectifier
  - Enable
  - Current mode control

- ▲ - Nonsynchronous  
⊙ - H<sup>3</sup>Reg™ control  
➡ - Maximum rating  
○ - On-time control  
PGD – Power Good  
Adj.SS - Adjustable Soft Start



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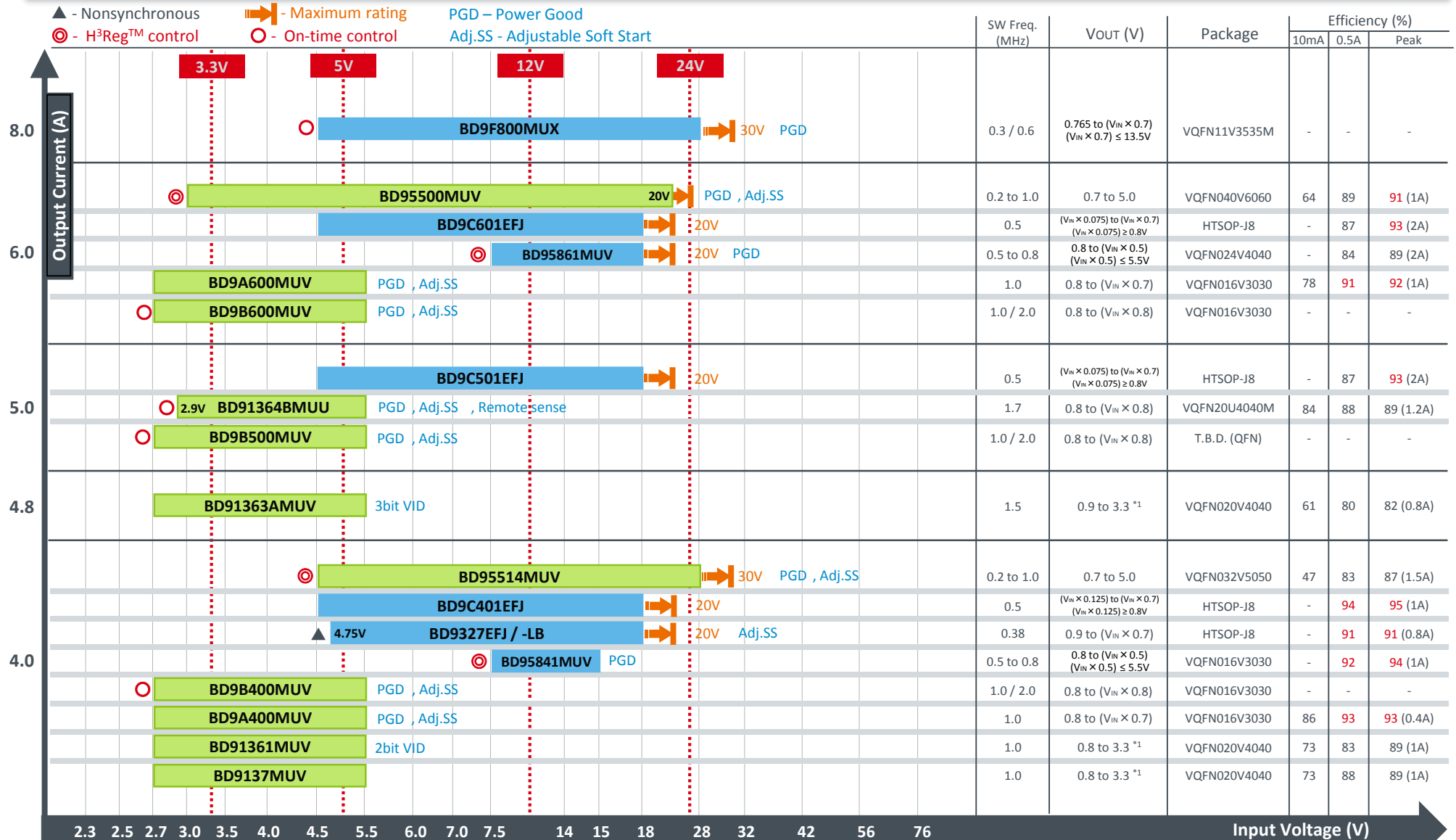


# DC/DC Switching Regulators

## Single Buck Converters (Integrated Switch) $I_o \leq 8.0A$

■ - PWM Mode  
■ - Light-Load Efficiency

Features (Unless otherwise specified)  
 - Soft Start   - Synchronous Rectifier  
 - Enable   - Current mode control



\*1 Output voltage is limited depending on the I/O voltage.

Conditions of Efficiency : 24V → 5V, 12V → 5V, 5V → 1.8V (There is an exception)

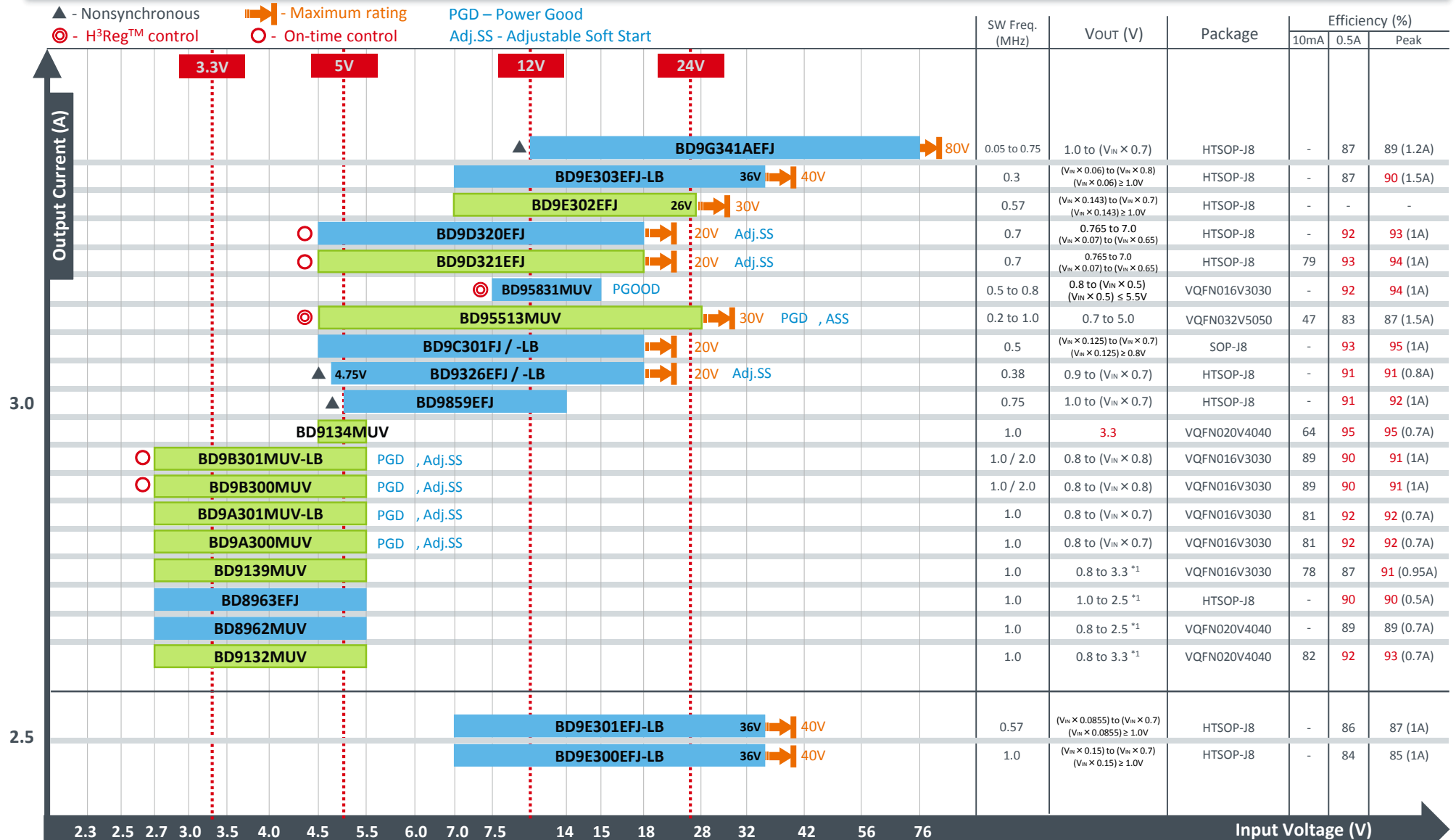
# DC/DC Switching Regulators

## Single Buck Converters (Integrated Switch) $I_o \leq 3.0A$

- - PWM Mode
- - Light-Load Efficiency

Features (Unless otherwise specified)

- Soft Start
- Synchronous Rectifier
- Enable
- Current mode control



\*1 Output voltage is limited depending on the I/O voltage.

Conditions of Efficiency : 24V → 5V, 12V → 5V, 5V → 1.8V (There is an exception)



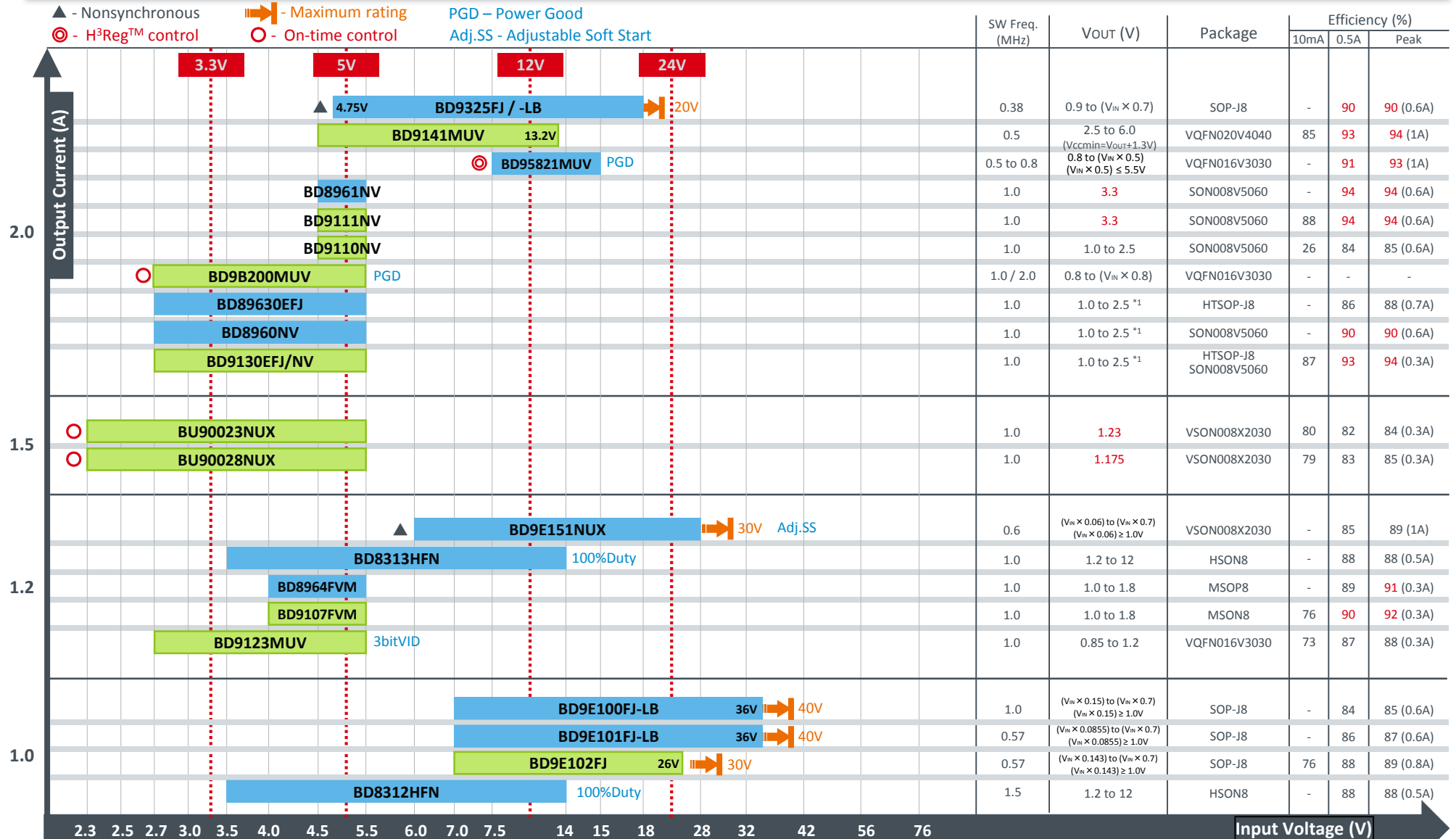
# DC/DC Switching Regulators

## Single Buck Converters (Integrated Switch) $I_o \leq 2.0A$

- - PWM Mode
- - Light-Load Efficiency

Features (Unless otherwise specified)

- Soft Start
- Synchronous Rectifier
- Enable
- Current mode control



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Conditions of Efficiency : 24V → 5V, 12V → 5V, 5V → 1.8V (There is an exception)

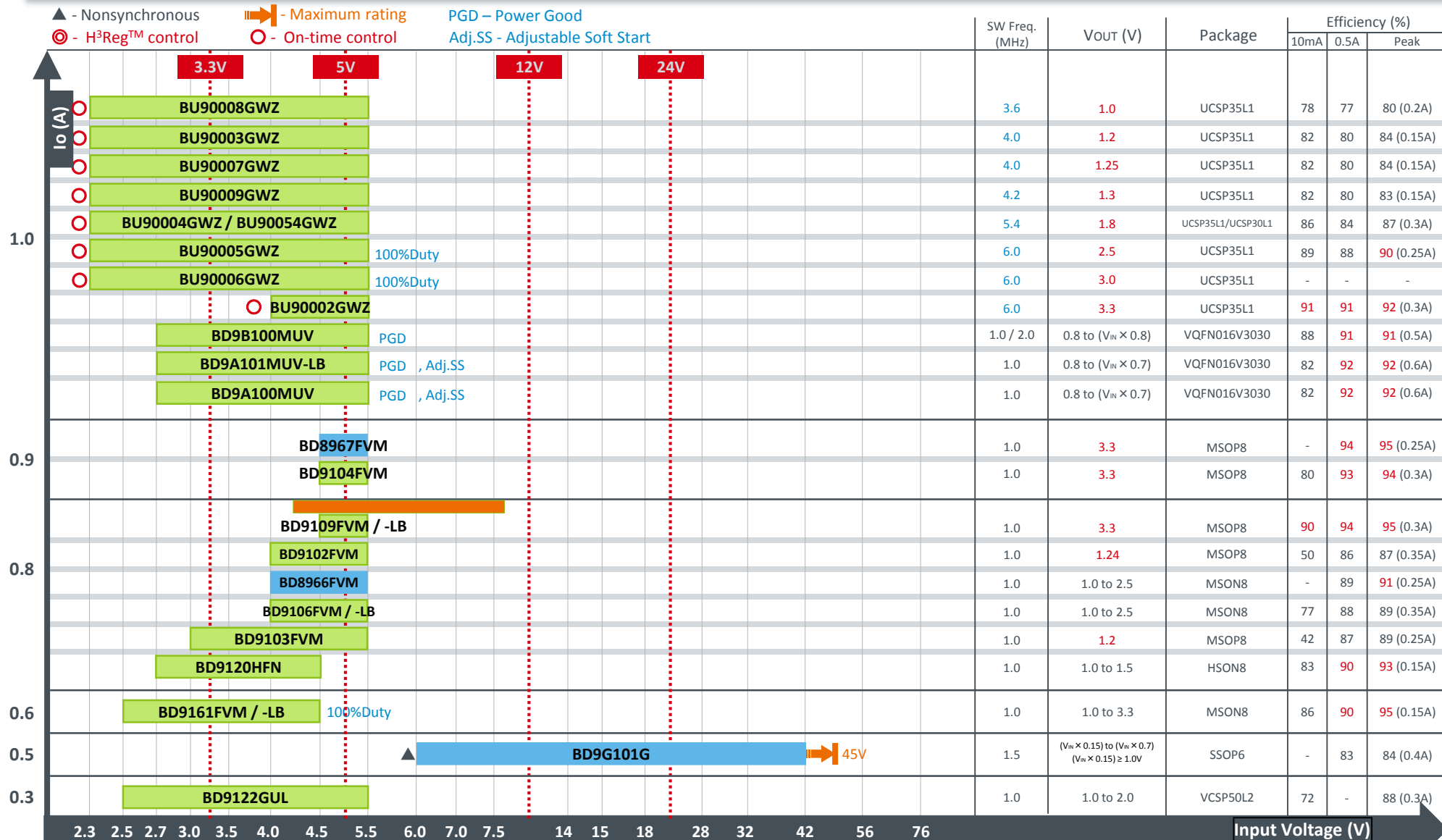


# DC/DC Switching Regulators

## Single Buck Converters (Integrated Switch) $I_o \leq 1.0A$

- - PWM Mode
- - Light-Load Efficiency

- Features (Unless otherwise specified)
- Soft Start
  - Synchronous Rectifier
  - Enable
  - Current mode control



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Conditions of Efficiency : 24V → 5V, 12V → 5V, 5V → 1.8V (There is an exception)

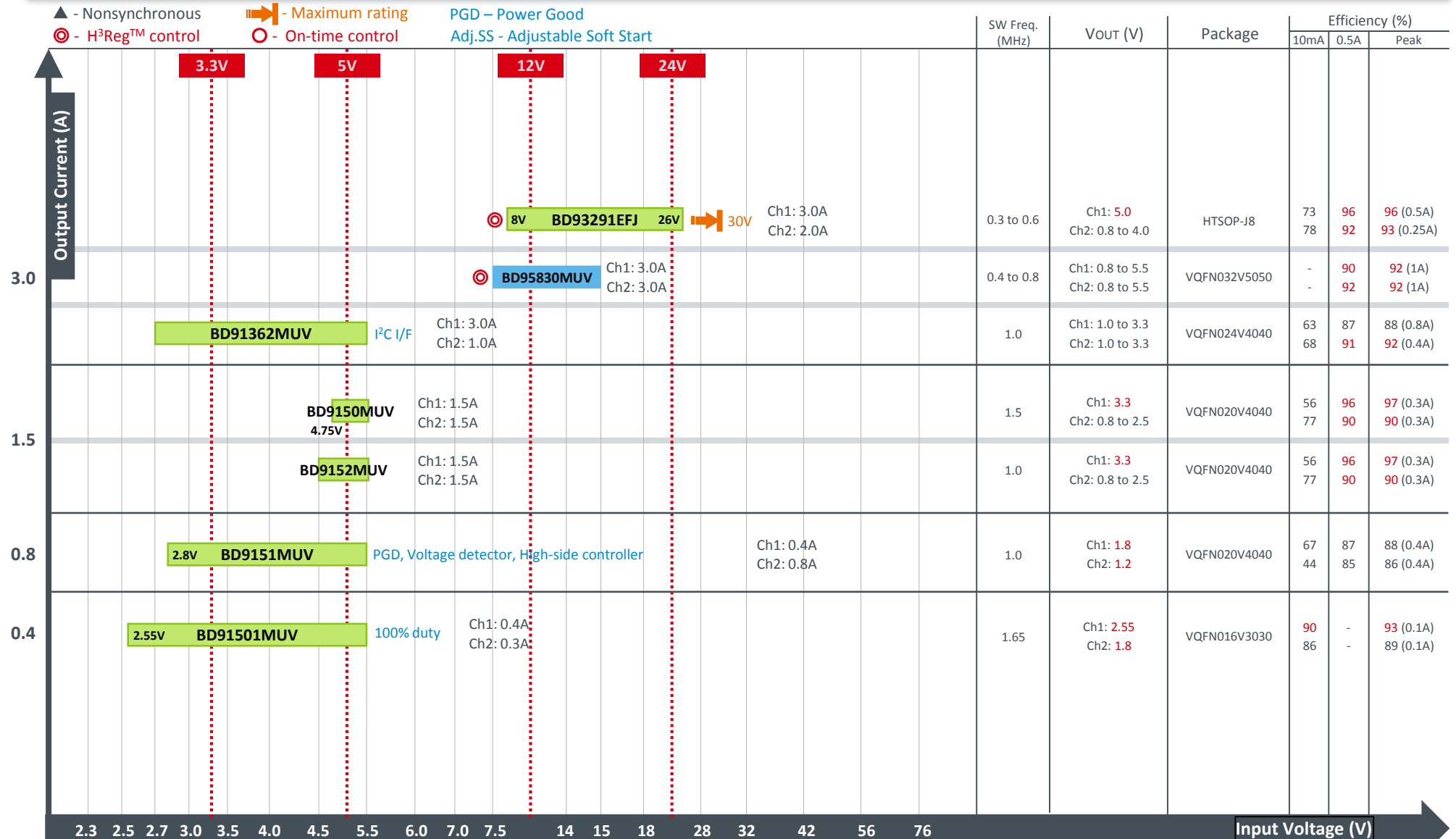


# DC/DC Switching Regulators

## Dual Buck Converters (Integrated Switch)

- - PWM Mode
- - Light-Load Efficiency

- Features (Unless otherwise specified)
- Soft Start
  - Synchronous Rectifier
  - Enable
  - Current mode control



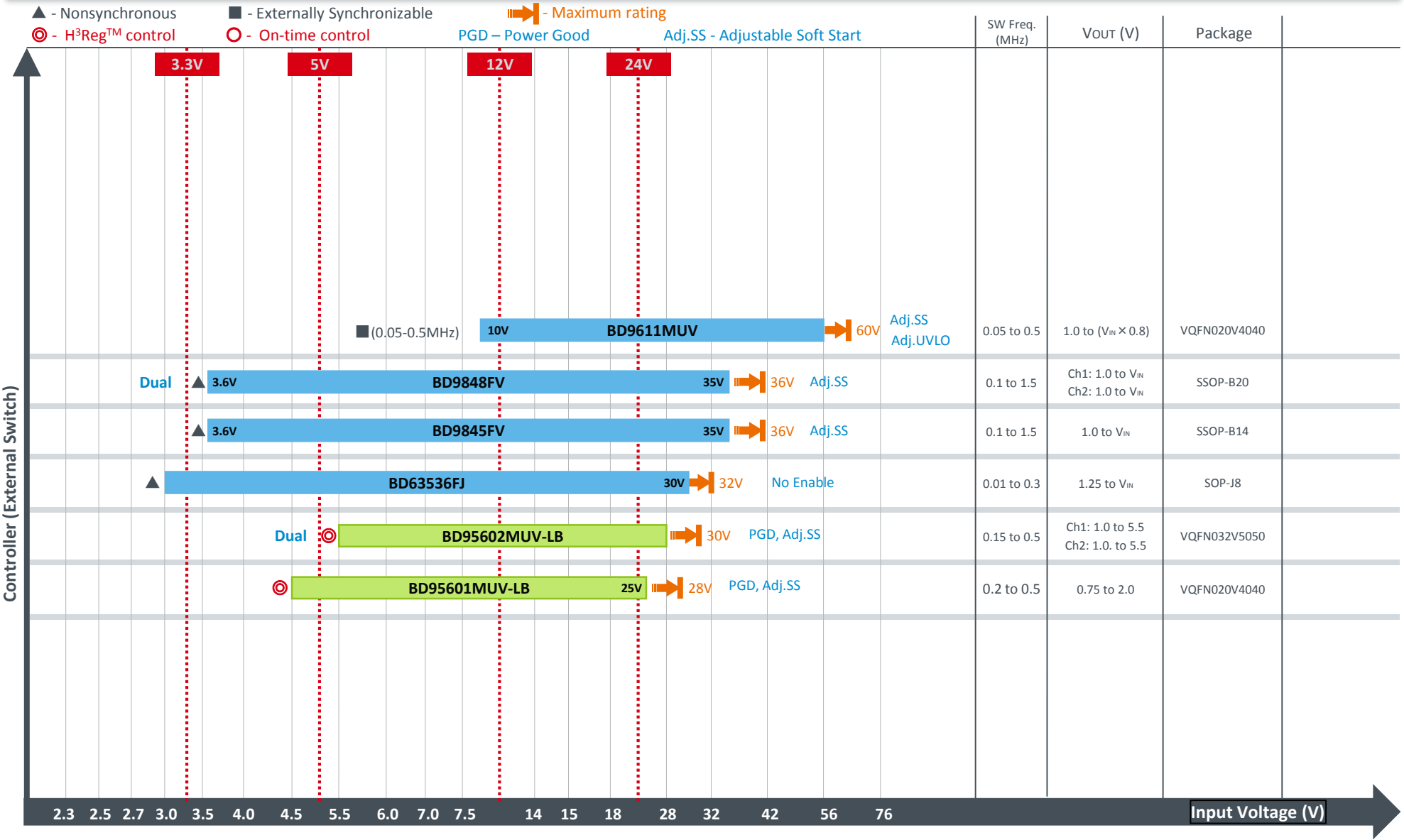
Conditions of Efficiency : 24V → 5V, 12V → 5V, 5V → 1.8V (There is an exception)



DC/DC Switching Regulators  
Buck Controllers (External Switch)

- PWM Mode
- Light-Load Efficiency

- Features (Unless otherwise specified)
- Soft Start
  - Synchronous Rectifier
  - Enable
  - Voltage mode control

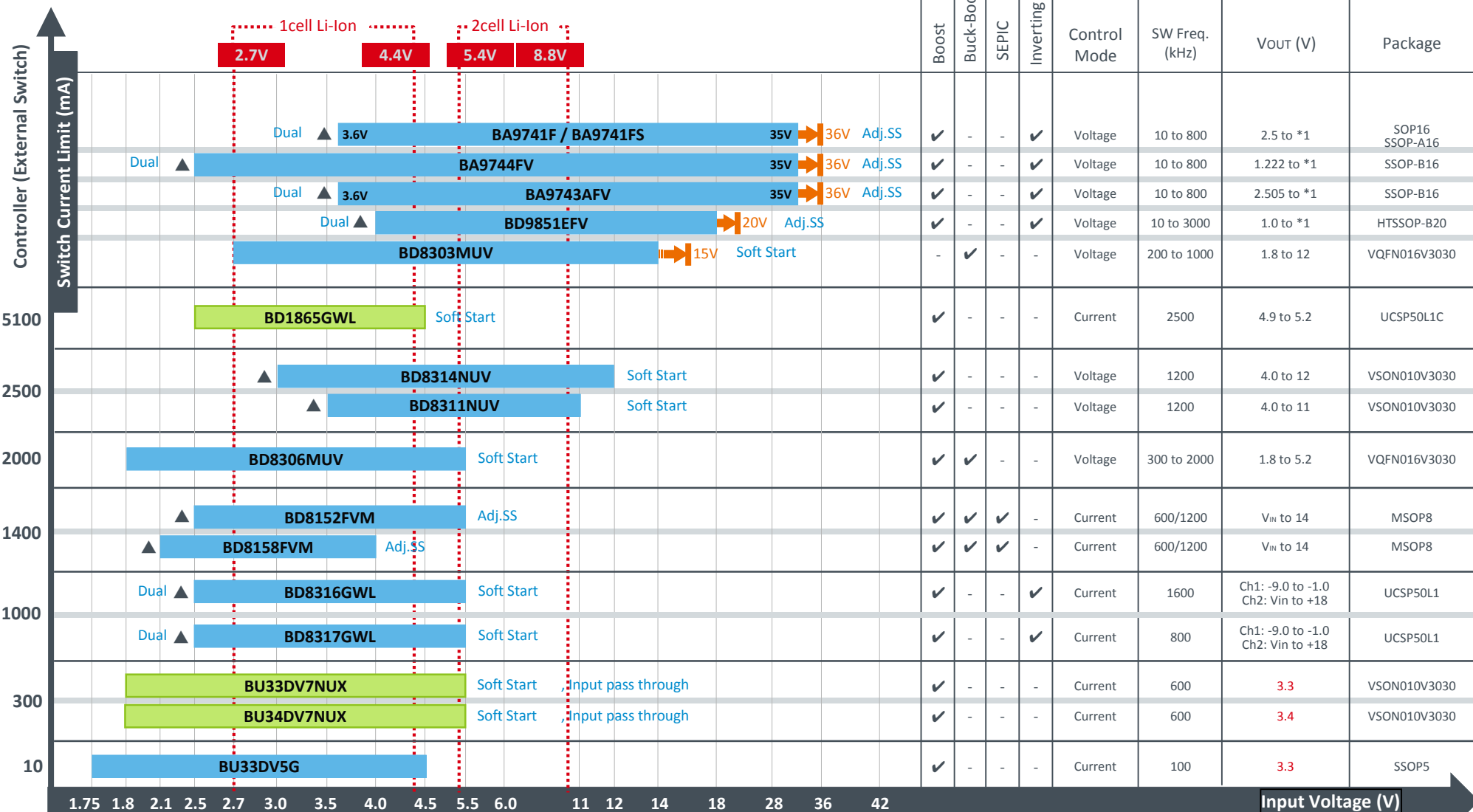


# DC/DC Switching Regulators

## Boost / Buck-Boost and Inverting Converters / Controllers (External Switch)

■ - PWM Mode  
■ - Light-Load Efficiency



▲ - Nonsynchronous    ➡ - Maximum rating



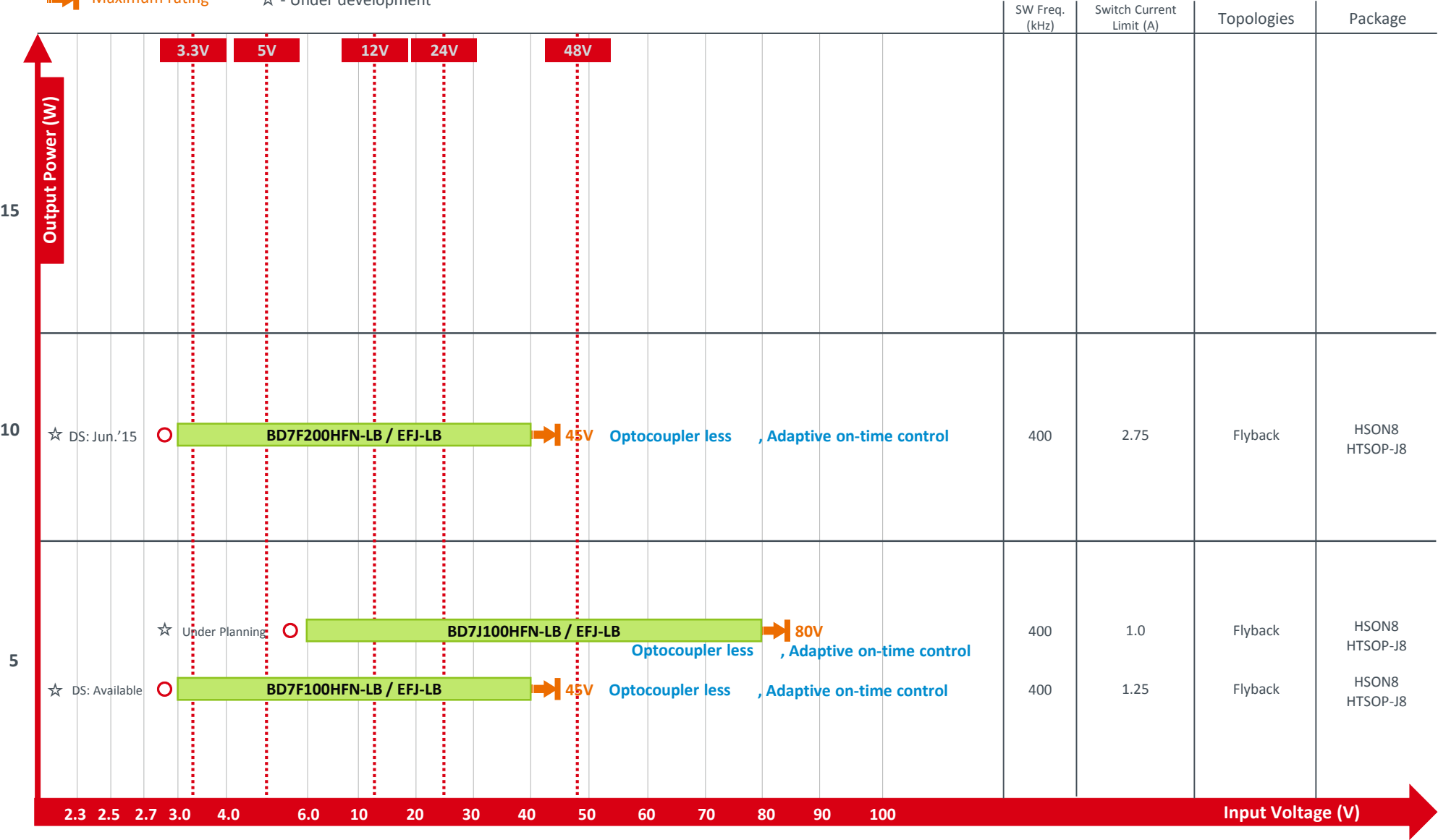
\*1 Output voltage is limited depending on the I/O voltage.



# Isolated DC/DC Power Supplies

 - PWM Mode  
 - Light-Load Efficiency

 - Maximum rating    ☆ - Under development



Power Module (Non-Isolated Buck DC/DC Converters)

- PWM Mode
- Light-Load Efficiency

