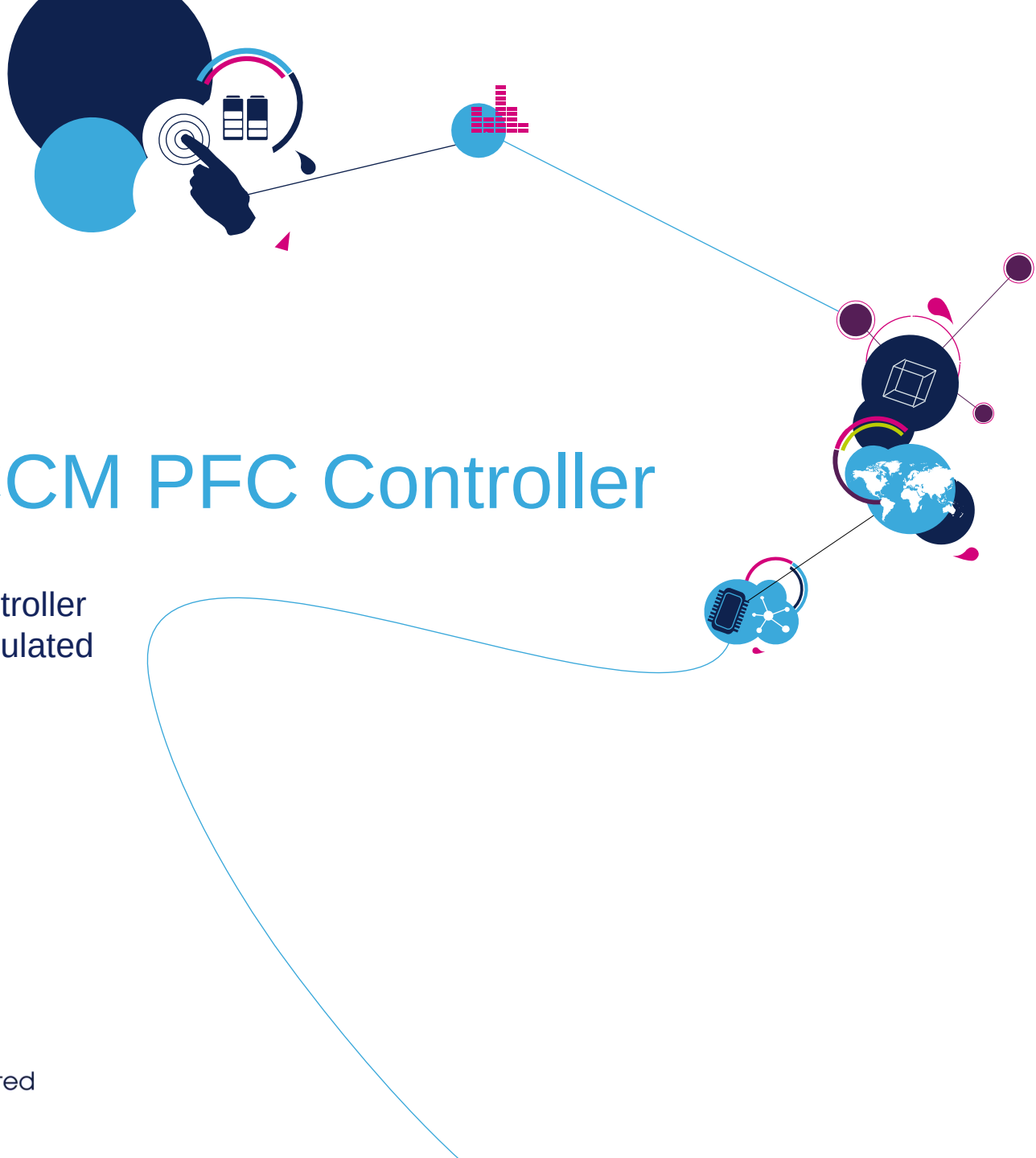




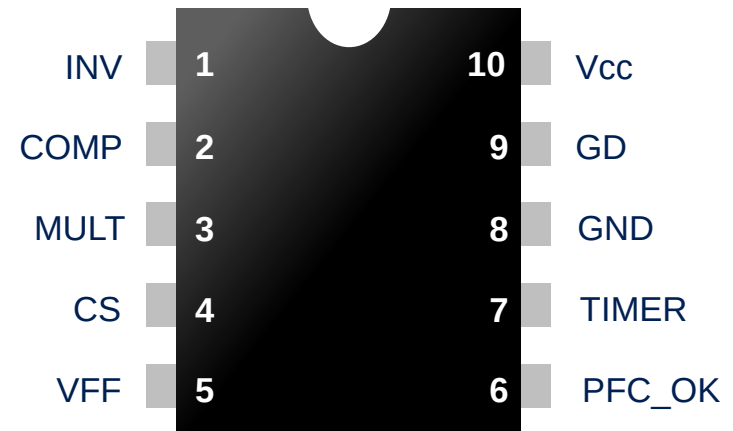
L4984D CCM PFC Controller

Current-mode PFC controller
operating with line-modulated
fixed-off-time control

IC description 2

Compact and versatile
current mode CCM PFC

Available in an ST
proprietary SSO10 Halogen
Free package



Features and benefits

3

Features	Benefits
• Proprietary LM-FOT modulator for nearly fixed frequency operation	• Simple design and reduced BOM
• Fast bidirectional input voltage feed forward ($1/V^2$)	• Mains drops and surges rejection
• Soft start	• Perfect inrush energy management
• Proprietary THD optimizer circuit	• Enhanced performance
• Full set protections embedded: 1. Feedback loop failure 2. Over voltage protection 3. Inductor saturation 4. AC brown out	1. Avoid bulk capacitors burning and down stream converter damaging 2. Improved design reliability 3. Avoid MOSFET damage 4. Avoid bridge, inductor and MOSFET damage

Why move to L4984D

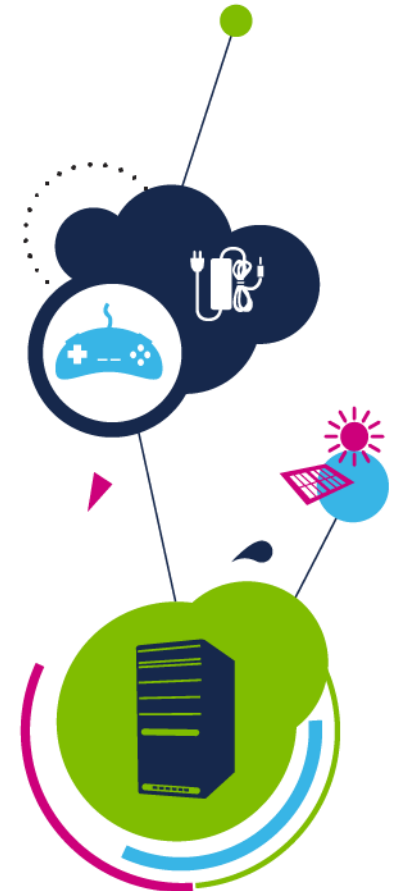
4

Simple device, high performance:

- L4984D is the right solution for middle-high power SMPS and is the best trade off between full set features, performance and price, form factor

Higher power density:

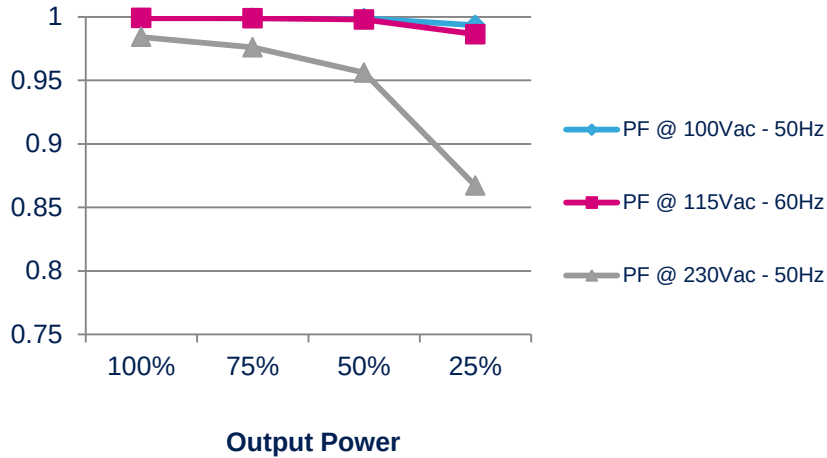
- Thanks to its ST proprietary package (10 pins in a SO8 body) and driving capability is able to address a wide range of applications from simple, such as high-end game consoles, desktop, and workstation to the more complex high-end servers, EV battery chargers, solar inverters or SMPS for data centers.



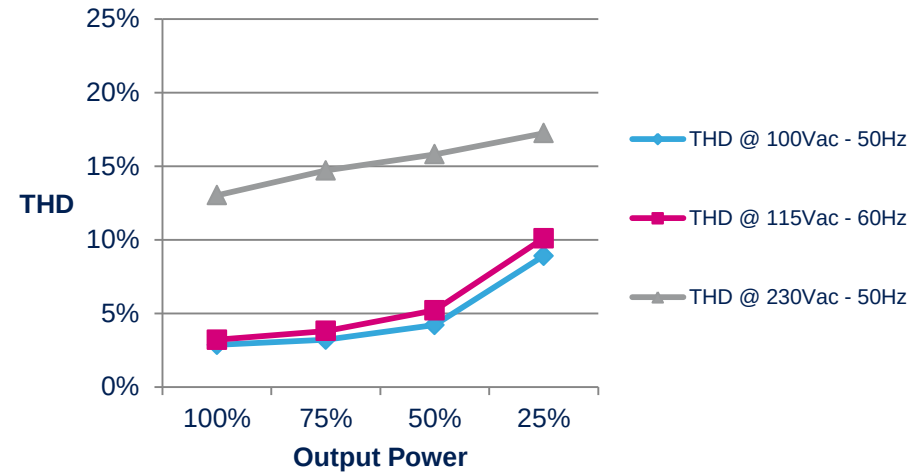
EVL4984-350W 350 W demo board - data

5

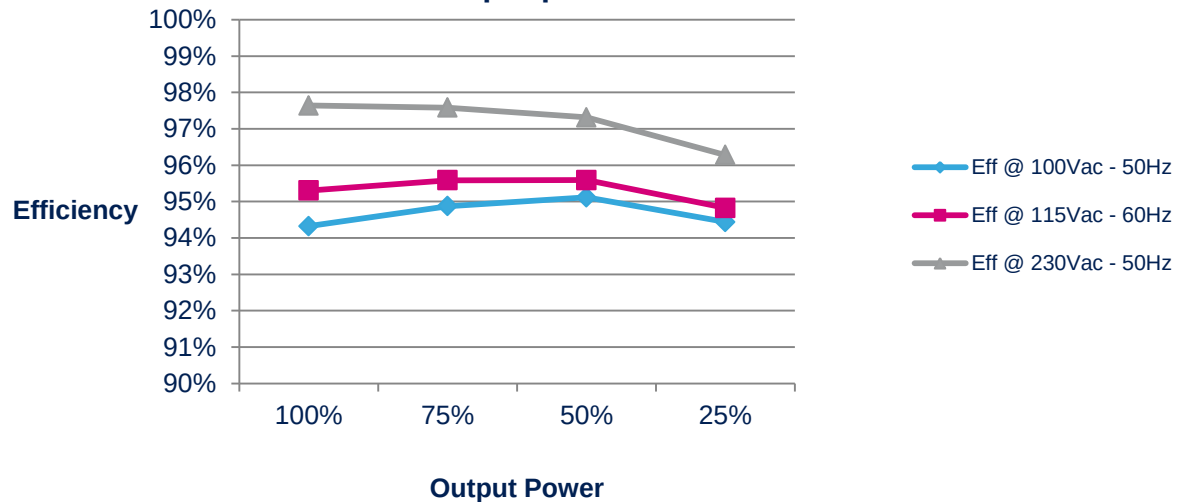
PF vs. output power



THD vs. output power

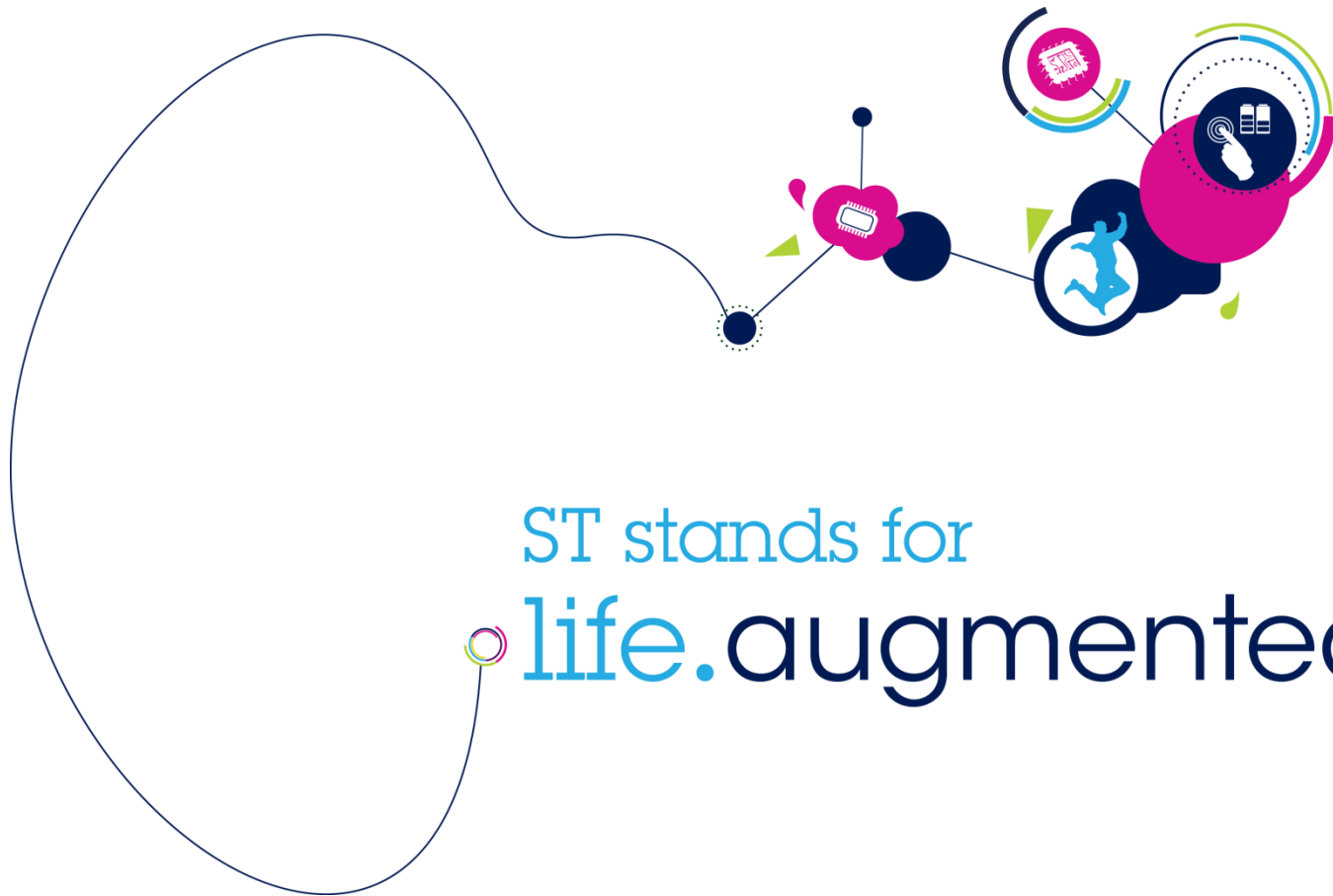


Eff vs. output power



Thank you!

6



ST stands for
life.augmented