

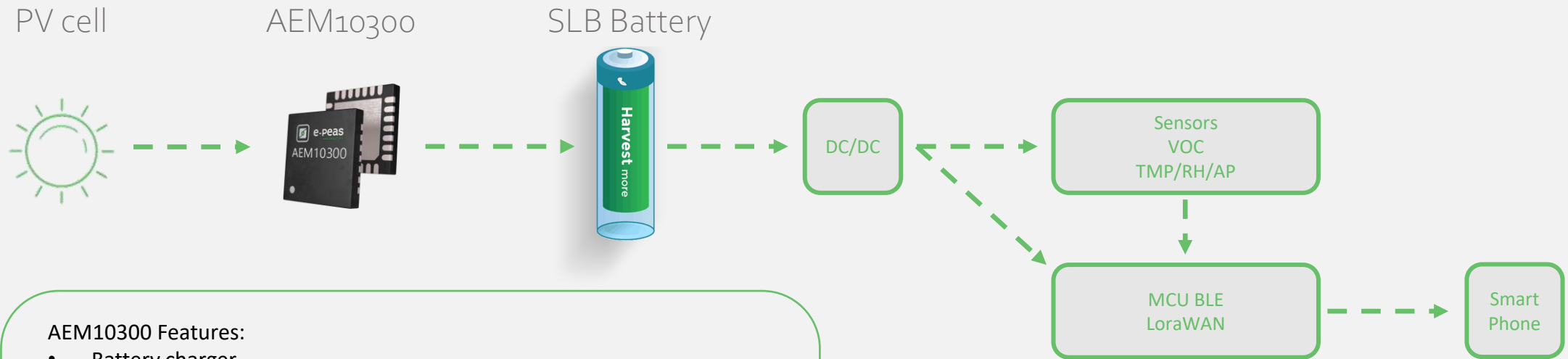


e-peas
semiconductors

AEM10300 vs AEM10330 Architectures



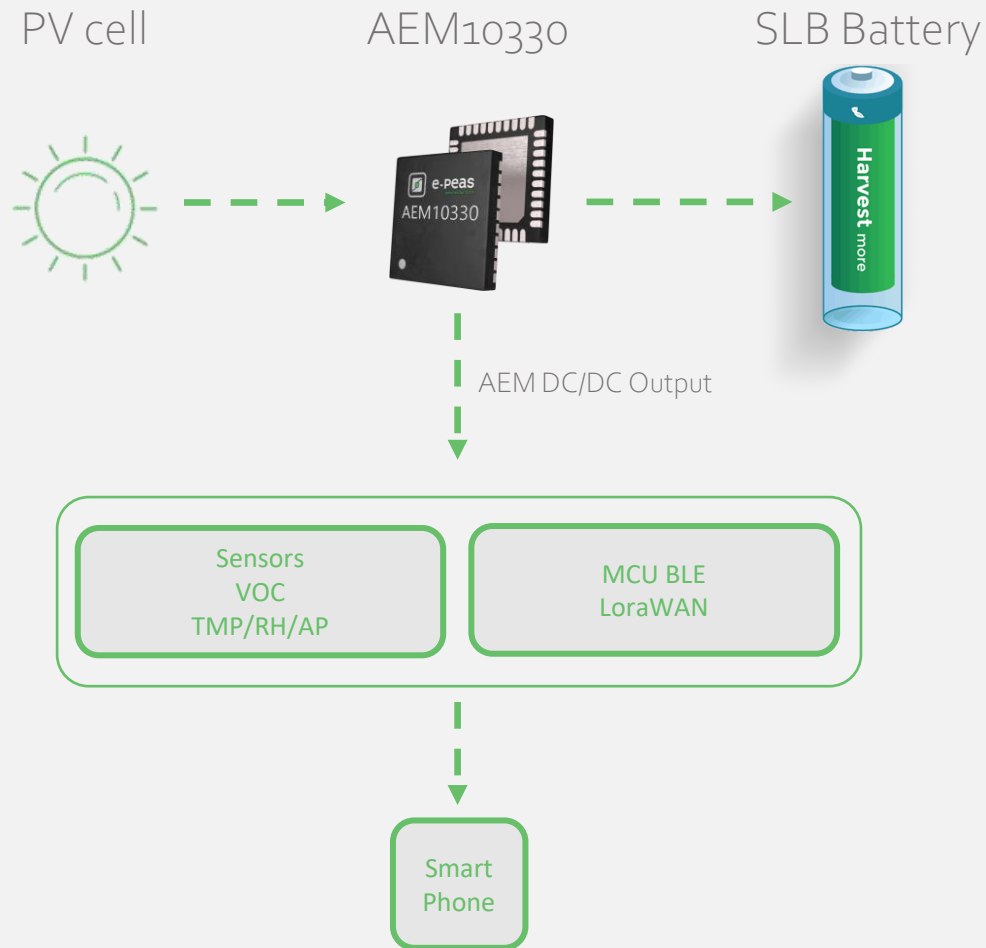
AEM10300 Architecture



AEM10300 Features:

- Battery charger.
- MPPT Tracking.
- V_{source} 100mV to 4.5V.
- Battery management and protection.
- BOM: 3 passives components
- Low cold start : 3uW @ 275mV.
- Boost/Buck-Boost/Buck operation modes.
- QFN28 4x4 mm.
- Disconnect from battery if no source : Quiescent current : 5.9 nA @ 3.7V

AEM10330 Architecture



AEM10330 Features:

- Battery charger + application power supply.
- MPPT Tracking.
- Internal DC/DC output:
 - 30mA low power mode.
 - 60 mA high power mode .
 - Voltage range: 1.2V to 3.3V.
- Vsource 100mV to 4.5V.
- Battery management and protection.
- BOM: 4 passives components
- Low cold start : 3uW @ 275mV.
- Boost/Buck-Boost/Buck operation modes.
- QFN40 5x5 mm.
- Quiescent current :
 - 875 nA @ 3.7V (active mode)
 - 350 nA (sleep mode)