| e-peas semiconductors | | AEM10941 | AEM10330 | AEM10920 | AEM10300 | AEM10900 AEM10901 | AEM00920 | AEM00940 AEM00941 | AEM00330 | AEM00300 | AEM00900 AEM00901 | AEM30940 | AEM30330 | AEM30300 | AEM20940 | AEM13920 |
|--------------------------------|-------------------------------|--------------------|--------------------|--------------------|--------------------|-----------------------------------|--------------------|----------------------|--------------------|--------------------|----------------------|--------------------|---------------------------------------|--------------------|-----------------|------------------|
| ENERGY HARVESTER SOURCE | Indoor / Outdoor PV Cell | | | | | | | | | | | | | | | |
| | Thermo Electric Generator | | | | | | | | | | | | | | | |
| | RF Antenna | | | | | | | | | | | | | | | |
| | Vibration Transducer | | | | | | | | | | | | | | | |
| | Pulse Generator | | | | | | | | | | | | | | | |
| | Source Voltage Range | 50mV to 4.5V | 100mV to 4.5V | 120mV to 4.35V | 100mV to 4.5V | 120mV to 2.73V | 250mV to 3.2V | 50mV to 4.5V | 140mV to 4.5V | 140mV to 4.5V | 120mV to 2.73V | 50mV to 4.5V | 100mV to 4.5V | 100mV to 4.5V | 50mV to 3.5V | 120mV to 4.6V |
| SPECIAL PURPOSE INPUTS | Harvester Inputs | Single | Single | Single | Single | Single | Single | Single | Single | Single | Single | Single | Single | Single | Single | Dual |
| | Primary Battery Input | | | | | | | | | | | | | | | |
| | 5 V input for Quick Charge | | | | | | | | | | | | | | | |
| STORAGE ELEMENT PROTECTIONS | GPIO Configurations | 7 presets | 15 presets | 4 presets | 15 presets | 8 presets | 4 presets | 7 presets | 15 presets | 15 presets | 8 presets | 7 presets | 15 presets | 15 presets | 7 presets | 8 presets |
| | Storage Voltage Range | OV to 4.5V | OV to 4.65V | 2.5V to 4.35V | OV to 4.65V | 2.5V to 4.8V | 2.5V to 4.35V | 0V to 4.5V | OV to 4.65V | OV to 4.65V | 2.5V to 4.8V | OV to 4.5V | OV to 4.65V | OV to 4.65V | OV to 4.5V | 2.5V to 4.12V |
| | Custom Mode | External resistors | External resistors | External resistors | External resistors | I ² C | External resistors | External resistors | External resistors | External resistors | I ² C | External resistors | External resistors | External resistors | | I ² C |
| | Temperature Protection | , | | | | | | | | | | | | | | |
| LOAD SUPPLY | Converter Type | 2 LDOs | 1 Buck/Boost | 1 Buck | | | 1 Buck | 2 LDOs | 1 Buck/Boost | | | 2 LDOs | 1 Buck/Boost | | 2 LDOs | 1 Buck |
| | Load Voltage Configuration | 7 presets | 4 presets | 3 presets | | | 3 presets | 7 presets | 4 presets | | | 7 presets | 4 presets | | 7 presets | 7 presets |
| | Load Voltage Range | 1.2V - 4.1V | 1.2V - 3.3V | 2.2V - 2.8V | | | 2.2V - 2.8V | 1.2V - 4.1V | 1.2V - 3.3V | | | 1.2V - 4.1V | 1.2V - 3.3V | | 1.2V - 3.3V | 0.6V - 2.5V |
| MPPT MODE | Open-voltage Ratio | | | | | | | | | | | | | | | |
| | Fixed Voltage | | | | | | | | | | | | | | | |
| CONFIGURATION | I2C Interface | | | | | | | | | | | | | | | |
| | GPIO | | | | | | | | | | | | | | | |
| ADVANCED FEATURES | Average Power Monitoring | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| | Shipping Mode | | | | | | | | | | | | | | | |
| TEMPERATURE RANGE | Industrial (-40°+85°C) | | | | | | | | | | | | | | | |
| PACKAGING | Type / Body Size | QFN 28 5x5mm | QFN 40 5x5mm | QFN 24 4x4mm | QFN 28 4x4mm | QFN 28 4x4mm | QFN 24 4x4mm | QFN 28 5x5mm | QFN 40 5x5mm | QFN 28 4x4mm | QFN 28 4x4mm | QFN 28 5x5mm | QFN 40 5x5mm | QFN 28 4x4mm | QFN 28 5x5mm | QFN 40 5x5mm |
| | | | | | | WLCSP16 2x2mm AEM10900 only | | QFN 28 4x4mm | | | | | | | | |