

Flex HV-EU Series



| PV Input Data | Flex HV-EU 5k | Flex HV-EU 6k | Flex HV-EU 8k | Flex HV-EU 10k-A | Flex HV-EU 10k |
|--|---|---------------|--|------------------|----------------|
| Recommended Max.PV Power (Wp) | 7500 | 9000 | 12000 | 15000 | 15000 |
| Max. PV Input Voltage (V) | | | 1000 | | |
| MPPT Voltage Range (V) | | | 160 – 950 | | |
| Rated PV Input voltage (V) | | | 600 | | |
| Start-up Voltage (V) | | | 160 | | |
| No. of MPP Trackers | | | 2 | | |
| No. of Input Strings per Tracker | | | 1 | | |
| Max. Input Current per MPPT (A) | | | 36(18 / 18) | | |
| Max. Short-circuit Current per MPPT(A) | | | 46(23 / 23) | | |
| DC Switch | | | Integrated | | |
| AC Output Data | | | | | |
| Maximum Apparent Power (VA) | 5500 | 6600 | 8800 | 10000 | 11000 |
| Rated AC Power(w) | 5000 | 6000 | 8000 | 10000 | 10000 |
| Maximum AC Current (A) | 7.6 | 9.1 | 12.2 | 14.4 | 15.2 |
| Rated AC Current (A) | 7.2 | 8.7 | 11.5 | 14.4 | 14.4 |
| Rated AC Voltage / Range (V) | | | 3 / N / PE,220 / 380, 230 / 400;20% | | |
| Grid Frequency / Range (Hz) | | | 50 / 60;±5 | | |
| Adjustable Power Factor (cos φ) | | | 0.8 leading – 0.8 lagging | | |
| Output THDi(@Rated Output) | | | <3% | | |
| AC Input Data | | | | | |
| Max. apparent AC Power (VA) | 10000 | 12000 | 16000 | 20000 | 20000 |
| Max. AC Current (A) | 15.2 | 18.2 | 24.3 | 28.8 | 30.4 |
| Rated AC Voltage / Range (V) | | | 3 / N / PE, 220 / 380, 230 / 400; ± 20% | | |
| Grid Frequency / Range (Hz) | | | 50 / 60; ± 5 | | |
| Battery Data | | | | | |
| Battery Type | | | Lithium | | |
| Battery Voltage Range (V) | | | 160 – 700 | | |
| Max. Charging / Discharging Current (A) | | | 30 / 30 | | |
| Communication Interface | | | CAN | | |
| EPS Output Data (With Battery) | | | | | |
| EPS Rated Power (W) | 5000 | 6000 | 8000 | 10000 | 10000 |
| EPS Rated Voltage (V) | | | 3 / N / PE, 220 / 380, 230 / 400 | | |
| EPS Rated Frequency (Hz) | | | 50 / 60 | | |
| EPS Rated Current (A) | 7.6 | 9.1 | 12.2 | 14.4 | 15.2 |
| Output THDi (@Rated Output) | | | <3% | | |
| Automatic Switch Time (ms) | | | <10 | | |
| Peak Apparent Power, Duration (VA, s) | 7500, 60 | 9000, 60 | 12000,60 | 15000, 60 | 15000, 60 |
| Efficiency | | | | | |
| Max. Efficiency | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| Euro Efficiency | 97.70% | 97.70% | 97.70% | 97.70% | 97.70% |
| Max. Battery Charge / Discharge Efficiency | 97.60% | 97.60% | 97.60% | 97.60% | 97.60% |
| Protection | | | | | |
| DC Insulation Monitoring | | | Integrated | | |
| Input Reverse Polarity Protection | | | Integrated | | |
| Anti-island Protection | | | Integrated | | |
| Residual Current Monitoring | | | Integrated | | |
| Over-heat Protection | | | Integrated | | |
| AC Overcurrent Protection | | | Integrated | | |
| AC Short-circuit Protection | | | Integrated | | |
| AC Overvoltage Protection | | | Integrated | | |
| DC Surge Protection | | | Integrated (Type II) | | |
| AC Surge Protection | | | Integrated (Type II) | | |
| General Data | | | | | |
| Dimensions(W*D*H) | | | 520*188 *412mm / 20.5*7.4*16in | | |
| Weight | | | 27kg / 59.5lb | | |
| User Interface | | | LED + OLEDRS485 and USB or Wifi or 4G (Optional) | | |
| Communication | | | -25- +60 | | |
| Operating Temperature Range (OC) | | | 0-100% | | |
| Relative Humidity | | | ≤2000 | | |
| Operating Altitude [m] | | | <15 | | |
| Standby Self Consumption [W]Topology | | | Transformerless | | |
| Cooling | | | Natural | | |
| Enclosure | | | IP65 | | |
| Noise (dB) | | | <35 | | |
| Warranty (years) | | | 5 | | |
| Certifications & Standards | | | | | |
| Grid Regulation | VDE 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-GR, EN 50549-PL, TOR Erzeuger, EN50549-CZ, AS4777, UNE217002 | | | | |
| Safety Regulation | IEC 62109-1, IEC 62109-2 | | | | |
| EMC | EN/IEC 61000-6-1, EN/IEC 61000-6-3 | | | | |