



电源规格

- 功率: 800W@220Vac, 400W@110Vac

AC-DC:

- 宽输入范围: 85-265 Vac, 50/60Hz
- 输出: 380V DC
- 峰值效率: >95% (@110Vac) 和 >97% (@220Vac)
- 功率因数: >0.99

DC-AC:

- 输入: 380V (额定值)
- 输出: 220V/50Hz, 110V/60Hz
- 峰值效率: >95.5% (考虑辅助电源)

Power Spec

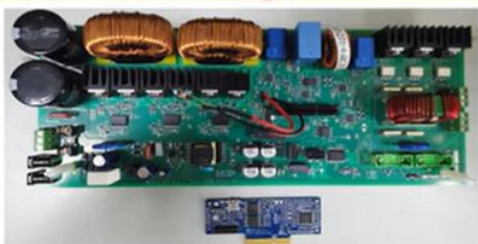
Power: 800W@220Vac, 400W@110Vac

AC-to-DC

- Wide input range: 85-265 Vac, 50/60Hz
- Output: 380V DC
- Peak efficiency: >95% @ 110Vac and >97% @ 220Vac
- Power factor: > 0.99

DC-to-AC

- Input: 380V rated
- Output: 220V/50Hz, 110V/60Hz
- Peak Efficiency: >95.5% considering auxiliary power



Features

- Bidirectional AC/DC converter controlled by MC56F83783
- Smooth transition between AC-to-DC and DC-to-AC mode by SW
- Smooth transition between islanded and grid-connected mode in DC-to-AC mode without surge
- PR controllers to zero the error at the fundamental AC frequency and harmonic frequencies in DC-to-AC mode, steady-state error below 1% for output voltage RMS and THD below 1.5% under linear load condition
- Capacitor current feedback to suppress LCL resonant
- Fast and stable DC bus pre-charging with Triac and soft starting for AC-to-DC mode
- Light-load mode to enable higher efficiency and power factor in AC-to-DC mode
- Cycle by cycle current limitation is realized with flexible DSC peripherals
- Protections: OCP, OVP, UVP, OFP, UFP, OTP
- FreeMaster support enables easy debugging of the system
- Highly optimized libraries, RTCESL, help speed development and improve code execution efficiency