



RF2-Series

Synchronous Permanent Magnet AC Alternator

3-Phase and Single-Phase Specifications

| Model | Frequency Hz | 3-Phase | | Single-Phase Δ | | Poles | Speed RPM | Motor Start kVA | Short Circuit A | Length mm | Weight kg |
|----------|-----------------|---------|------|----------------|-----|-------|--------------|--------------------|--------------------|--------------|--------------|
| | | kVA | kW | kVA | kW | | | | | | |
| RF2-3.75 | 50 | | | 2.0 | 1.8 | 2 | 3000 | 3 | 12 | 192 | 19 |
| | 60 | | | 2.2 | 2.0 | 2 | 3600 | 3.6 | 16 | | |
| RF2-7.5 | 50 | 7.5 | 6 | 4.5 | 3.5 | 2 | 3000 | 6 | 25 | 192 | 28 |
| | 60 | 9 | 7.2 | 5.4 | 4.2 | 2 | 3600 | 7.2 | 30 | | |
| RF2-12.5 | 50 | 12.5 | 10 | 7.5 | 6 | 2 | 3000 | 14 | 46.5 | 237 | 40 |
| | 60 | 15 | 12 | 9 | 7.2 | 2 | 3600 | 16.8 | 55.8 | | |
| RF2-17.5 | 50 | 17.5 | 14 | 10.5 | 8.4 | 2 | 3000 | 19 | 60 | 286 | 51 |
| | 60 | 20.2 | 16.8 | 12.1 | 10 | 2 | 3600 | 22.8 | 72 | | |

Bi-Gen Specifications – Dual independent Single-Phase Circuits

| Model | Frequency Hz | Bi-Gen | | Poles | Speed RPM | Motor Start kVA | Short Circuit A |
|----------|-----------------|--------|------|-------|--------------|--------------------|--------------------|
| | | kVA | kW | | | | |
| RF2-7.5 | 50 | 7.5 | 6 | 2 | 3000 | 6 | 37.5 |
| | 60 | 9 | 7.2 | 2 | 3600 | 7.2 | 45 |
| RF2-12.5 | 50 | 12.5 | 10 | 2 | 3000 | 9 | 60 |
| | 60 | 15 | 12 | 2 | 3600 | 10.8 | 72 |
| RF2-17.5 | 50 | 17.5 | 14 | 2 | 3000 | 14 | 90 |
| | 60 | 20.2 | 16.8 | 2 | 3600 | 16.8 | 108 |

Characteristics

1. Very high efficiency 92%.
2. Excellent THD, <3%, no transients, no voltage spike on load rejection.
3. Small footprint and lightweight.
4. No electronics, increased reliability and robustness. Ease of fit on engine.
5. Bearing is the only wearing component.
6. Permanent Magnet Rotor
7. IP23 Protection.
8. PTO V-type shaft mounting

Advantages

- Unbalanced 3 Phase loads. Alternator can supply 3 x 1 Phase circuits with varying loads, as well as a 3 phase load at the same time.
- Motor Start capability: The RFL alternator can start single phase motors as well as 3 phase motors.
- Paralleling generators: The RFL rotor allows a wider out of phase angle over which they will lock together without high surge currents and shaft shock. This allows a number of smaller generators to be used to supply large loads with no special switching equipment.
- **Adjustable location of feet, bottom and side mounting options**