

INTRODUCING THE
PowerOptimal Benjamin DPM30-8

The PowerOptimal Benjamin DPM30-8 was developed to seamlessly and automatically manage domestic electrical loads where standby generators or backup inverters are introduced.

As standby sources are often rated at a lower capacity than the main incoming supply, it becomes important to manage the loads during switch-over from main-to standby and then again from standby- to main supply. This is especially relevant in the case of unplanned switch-over, such as in the case of power failures or load shedding.



SPECIFICATIONS

INPUT

A current transformer is included to measure the total consumption of the installation.

PROGRAMMING AND CONTROL

When the main supply fails, DPM30-8 can disconnect up to 8 chosen loads within 15 milliseconds. After a delay, loads will be restored according to a hierarchy where some loads can be programmed not to receive power during this phase. Before each load is restored, the unit will calculate spare capacity and only restore if the available capacity can meet the programmed requirement for the specific load. The requirement of each of the 8 selected loads can be programmed. Appliances will also be disconnected as potential overloads occur. The rated supply as well as the maximum allowed load can be set in Amperes.

When the main supply is restored, the unit will again disconnect the loads for up to 6 minutes. This period protects equipment from damage during the most unstable main supply period and will only allow reconnection if the mains supply is stable for at least 4 minutes. DPM30-8 can operate indefinitely without being damaged with voltages up to 400 Volt AC. During mains supply, different supply- and load current ratings can be programmed to continue control at the higher available power level.

Installation can be done by any certified electrician and programming is straightforward without the need for a computer or any proprietary software.

DISPLAY

Total current and kVA, current set-points, supply to loads as well as activity on each load, present supply voltage, main- or standby supply power and timing are constantly displayed on a LCD screen.

SPECIFICATIONS

- Supply voltage: 185 – 250 Volt AC
- Total power requirement: < 10 Watts
- Direct switching capacity: 30 Ampere @ 230 Volt AC, higher loads via interposing contactor
- Maximum total control capacity: 120 kVA
- Single load programming range: 1 to 15 kVA
- Current transformer settings: 100:1, 200:1, 400:1 and 750:1
- Dimensions: 380 x 280 x 135 mm
- Mass: 3 kg
- Included auxiliaries: Installation instructions, current transformer, sensing relay, mounting kit

