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| --- | --- | --- |
| Parameter | Meaning | Default Value |
| Loadt | Average required IT power | N/A |
| Workloadt | Average offered IT load (power) | N/A |
| T | Length of the scheduling horizon | 24 hours |
| MaxPower | Maximum IT power (servers and switches) | 64×30W+2×42W |
| CoverPower | Typical power consumption of the Covering subset and switches | 8×28W+30W+24W |
| LoadGreent | Amount of green power to be used for the load | N/A |
| LoadBrownt | Amount of grid power to be used for the load | N/A |
| LoadBattt | Amount of battery power to be used for the load | N/A |
| BattGreent | Amount of green power to be used for charging batteries | N/A |
| NetGreent | Amount of green power to be used in net metering | N/A |
| Brownt | Amount of grid power to be used for any purpose | N/A |
| BattBrownt | Amount of grid power to be used for charging batteries | N/A |
| CapBatt0 | Battery charge level in the first epoch | 85% |
| Duration | Length of each epoch | 15minutes |
| β | Energy losses in batteries | 10% |
| BattMaxCharge | Maximum charge rate of batteries | 8kW |
| MaxCapBatt | Maximum battery capacity | 32kW |
| ϒ | Minimum battery charge level | 65% |
| BEnergyPrice | Grid energy price | $0.08/kWh(off-peak), $0.13/kWh (on-peak) |
| BPeakPrice | Peak grid power price | $13.61/kW/month |
| α | Percentage of retail price paid in net metering | 40% |
| PreviousPeak | Maximum grid power consumed so far | N/A |
| MaxPeak | Maximum peak grid power | N/A |
| Loadtup | Average required IT power when the grid is up | N/A |
| Loadtdown | Average required IT power to be used when the grid is down | N/A |