A modified IEEE 118-bus system is designed with 54 thermal units and 8 wind farms located at 8 buses which can be found in this repo. The number of variables and constraints in DDRO based unit commitment model is described in Table II. The total cost of the DDRO based unit commitment model is 1.8145 M$ and 1.8217 M$ with rand 0.1 (5000 scenarios

Table II. Description of DDRO Based Unit Commitment Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Problem | *MP* | | *SPU* | | *SPL* |
| Number of variables | 3888 | Number of scenarios | | 1488 | |
| Number of constraints | 6048 | Number of scenarios2 | | 5508 | |