附录A 仿真参数



(a) 预测负荷 (b) 风、光的预测出力

**图A 1 MGs的预测负荷及风、光的预测出力**

**Fig.A 1 forecast load of MGs as well as the forecast output of WT and PV**

表A 1 主网分时电价

**Tab. A 1 TOU price of main grid**

|  |  |
| --- | --- |
| 交易时段 | 价格 |
| 10:00-15:00, 18:00-21:00 | 1.322元/kWh |
| 7:00-10:00, 15:00-18:00, 21:00-23:00 | 0.832元/kWh |
| 23:00-7:00 | 0.369元/kWh |

表A 2 RDGs和CDGs参数

**Tab. A 2 Parameters of RDGs and CDGs**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MG | DG  类型 | 最小出力/kW | 最大出力/kW | *a*CDG | *b*CDG | *c*CDG,+ | *c*CDG,- | *m*CDG | *n*CDG |
| MG1 | WT | 0 | 100 | \ | \ | \ | \ | \ | \ |
| CDG | 0 | 200 | 0.002 | 0.6 | 0.35 | 0.25 | 0.0015 | 0.2 |
| MG2 | PV | 0 | 420 | \ | \ | \ | \ | \ | \ |
| CDG | 0 | 300 | 0.002 | 1.4 | 0.35 | 0.25 | 0.004 | 0.2 |
| MG3 | WT | 0 | 300 | \ | \ | \ | \ | \ | \ |
| CDG | 0 | 200 | 0.002 | 0.6 | 0.35 | 0.25 | 0.0015 | 0.2 |

附录B 概率密度函数

6.3节中采用的扩展贝塔分布和扩展指数分布的概率密度函数分别如式和式所示：



