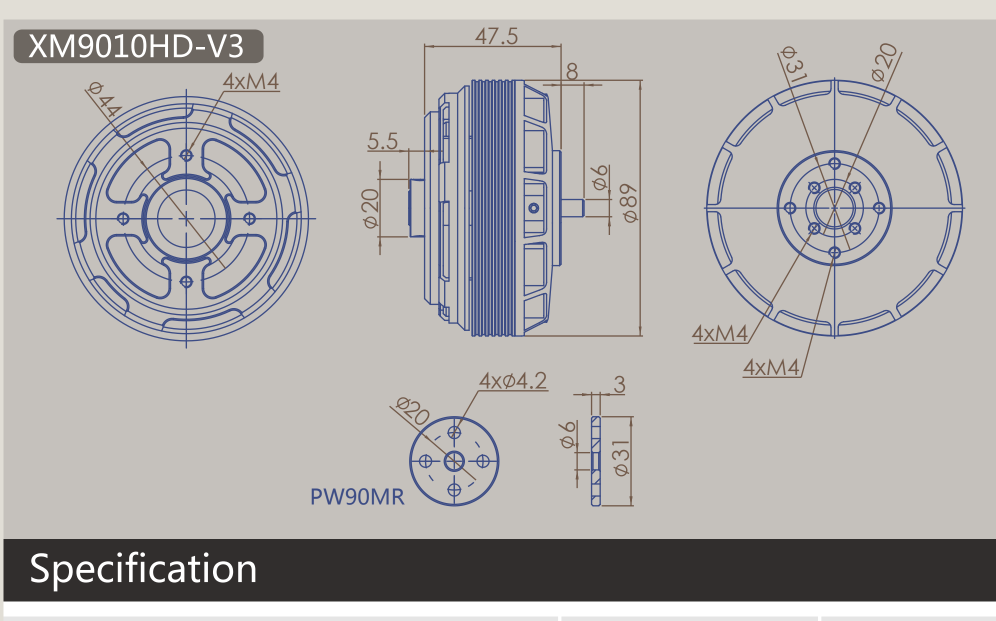
## Dimensions

XM9010HD-V3




## Specification

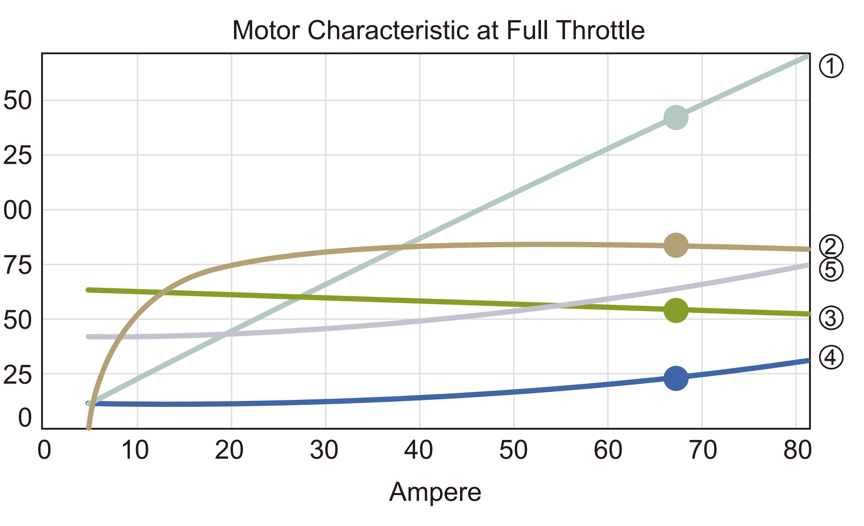
| Heavy duty series for Multi-copter | XM9010HD-6 | XM9010HD-13 | XM9010HD-14.5 |
|---|---|---|---|
| Item NO. (商品编码) | 51452 | 51453 | 51547 |
| RPM/V (KV) (KV值) | 300 | 140 High Voltage | 125 |
| Weight w/o wires(g) (重量) | 525 | 525 | 525 |
| Diameter(mm) (直径) | 89 | 89 | 89 |
| Length(mm) (长度) | 46.5 | 46.5 | 46.5 |
| Diameter of Shaft(mm) (轴径) | IN:10.0, Out:6.0 | IN:10.0, Out:6.0 | IN:10.0, Out:6.0 |
| Propeller mounting holes [Pitch, Size] (mm) (桨安装孔距) | (A)20mm, 4-M4<br>(B)32mm, 4-M4 | (A)20mm, 4-M4<br>(B)32mm, 4-M4 | (A)20mm, 4-M4<br>(B)32mm, 4-M4 |
| Motor mounting holes [Pitch, Size] (mm) (马达安装孔距) | (A)32mm, 4-M4<br>(B)44mm, 4-M4 | (A)32mm, 4-M4<br>(B)44mm, 4-M4 | (A)32mm, 4-M4<br>(B)44mm, 4-M4 |
| Slots,Poles (极数) | 24, 28 | 24, 28 | 24, 28 |
| Idle Current(Io) @10V(A) (空载电流) | 2.5 | 0.8 | 0.6 |
| Resistance(Ri)(mOhm) (电阻) | 32 | 70 | 68 |
| Nominal Voltage(V) (额定电压) | 22.2V, 6S Lipo | 30-51V, 10-12S Lipo | 30-51V, 10-12S Lipo |
| Cruising power(W)[30 mins] (巡航功率) | 1150 | 1420 | 1200 |
| Bursts current(A)[30s] (最大电流) | 94 | 58 | 50 |
| Peak power(W)[30s] (峰值功率) | 2100 | 2600 | 2220 |
| Input Wire (线规格) | 14AWG, 1000mm | 14AWG, 1000mm | 14AWG, 1000mm |
| Recommended ESC (调速器) | PCU 100 | PCU 80HV | PCU 80HV |
| Propeller (螺旋桨配置) | MRP 22-24" | MRP 24" | MRP 26" |
| Propeller adapters (螺旋桨适配器) | Yes | Yes | Yes |
| Centrifugal fan (离心式风扇设计) | Yes | Yes | Yes |
| Dynamic balanced rotor (转子动平衡) | Yes | Yes | Yes |
| Heavy duty design (大负载设计) | Yes | Yes | Yes |
| Water & dust proof (防水防尘) | Yes (IP34) | Yes (IP34) | Yes (IP34) |
| Maintenance free (免维护) | Yes | Yes | Yes |
| Weight of Quad-copter(kg) (4轴重量) | 12.8 | 15.8 | 14.5 |
| Weight of Hex-copter(kg) (6轴重量) | 19.2 | 23.7 | 22 |
| Weight of Oct-copter(kg) (8轴重量) | 25.6 | 31.6 | 30 |
| Memo (备注) | For business agriculture spray<br>用于工业级多旋翼或农业植保多旋翼 | | |

## XM9010HD (300KV)

**Motor @ Optimum Efficiency**
**最佳效率**

| | |
|---|---|
| Current(电流): | 50.07A |
| Voltage(电压): | 21.45V |
| Revolutions(转速): | 5707rpm |
| Electric Power(输入功率): | 1074.3W |
| Mech. Power(输出功率): | 901W |
| Efficiency(效率): | 83.9% |

**Propeller Dualsky MRP 22X7**



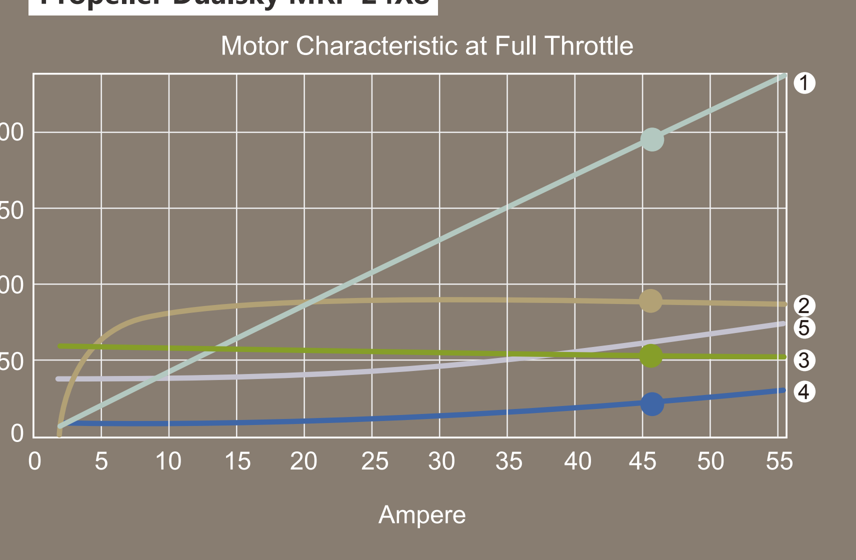

| Voltage (V) | Propeller (RPM) | Throttle (%) | Current (DC) (A) | Volage (DC) (V) | el. Power (W) | Efficiency (%) | Thrust (g) | Spec. Thrust (g/W) |
|---|---|---|---|---|---|---|---|---|
| 22.2V (6S LIPO) | 2000 | 33 | 3.6 | 22.2 | 78.9 | 75.1 | 930 | 11.8 |
| | 2400 | 40 | 5.9 | 22.1 | 129.4 | 79.1 | 1339 | 10.3 |
| | 2800 | 47 | 9.1 | 22.1 | 199.4 | 81.5 | 1822 | 9.1 |
| | 3200 | 54 | 13.3 | 22 | 292.6 | 82.9 | 2380 | 8.1 |
| | 3600 | 62 | 18.9 | 22 | 412.7 | 83.7 | 3012 | 7.3 |
| | 4000 | 70 | 25.9 | 21.9 | 563.5 | 84.1 | 3718 | 6.6 |
| | 4400 | 78 | 34.6 | 21.8 | 748.9 | 84.2 | 4499 | 6.0 |
| | 4800 | 86 | 45.3 | 21.6 | 973 | 84.1 | 5354 | 5.5 |
| | 5200 | 94 | 58.2 | 21.5 | 1239.8 | 84 | 6283 | 5.1 |
| | 5439 | 100 | 67.9 | 21.3 | 1437.8 | 83.1 | 6874 | 4.8 |

## XM9010HD (140KV High Voltage)

Motor @ Optimum Efficiency
最佳效率

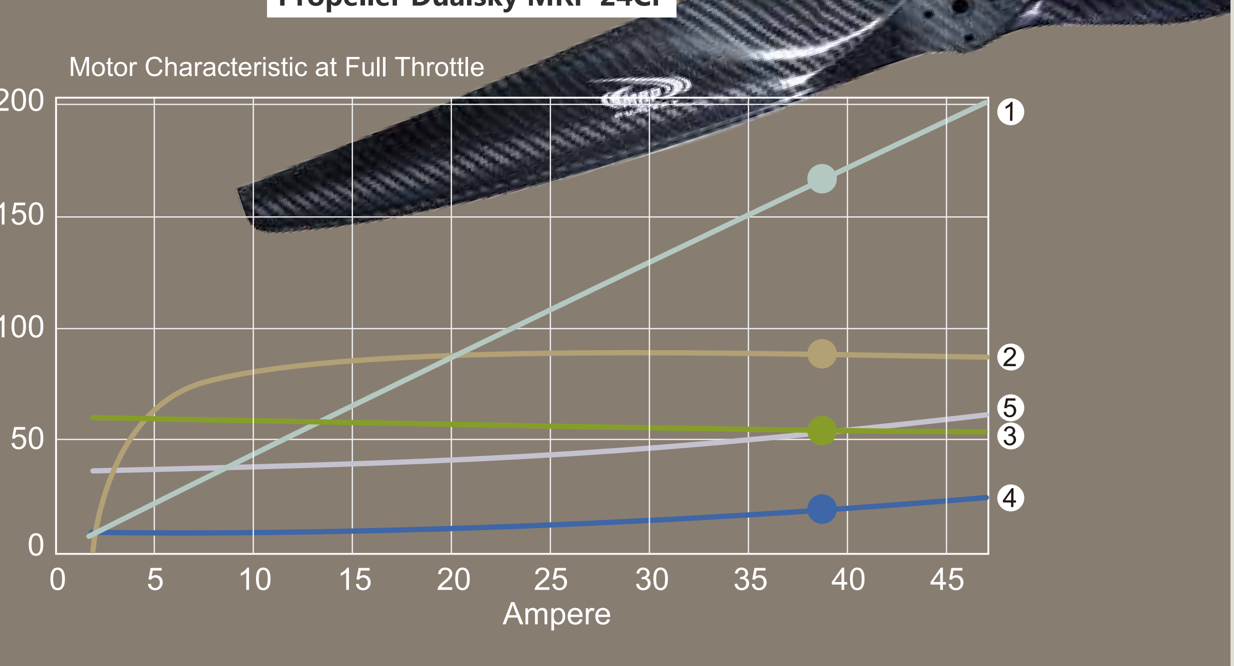
| | |
|---|---|
| Current(电流): | 30.08A |
| Voltage(电压): | 43.57V |
| Revolutions(转速): | 5588rpm |
| Electric Power(输入功率): | 1310.7W |
| Mech. Power(输出功率): | 1171.3W |
| Efficiency(效率): | 89.4% |

**Propeller Dualsky MRP 24X8**



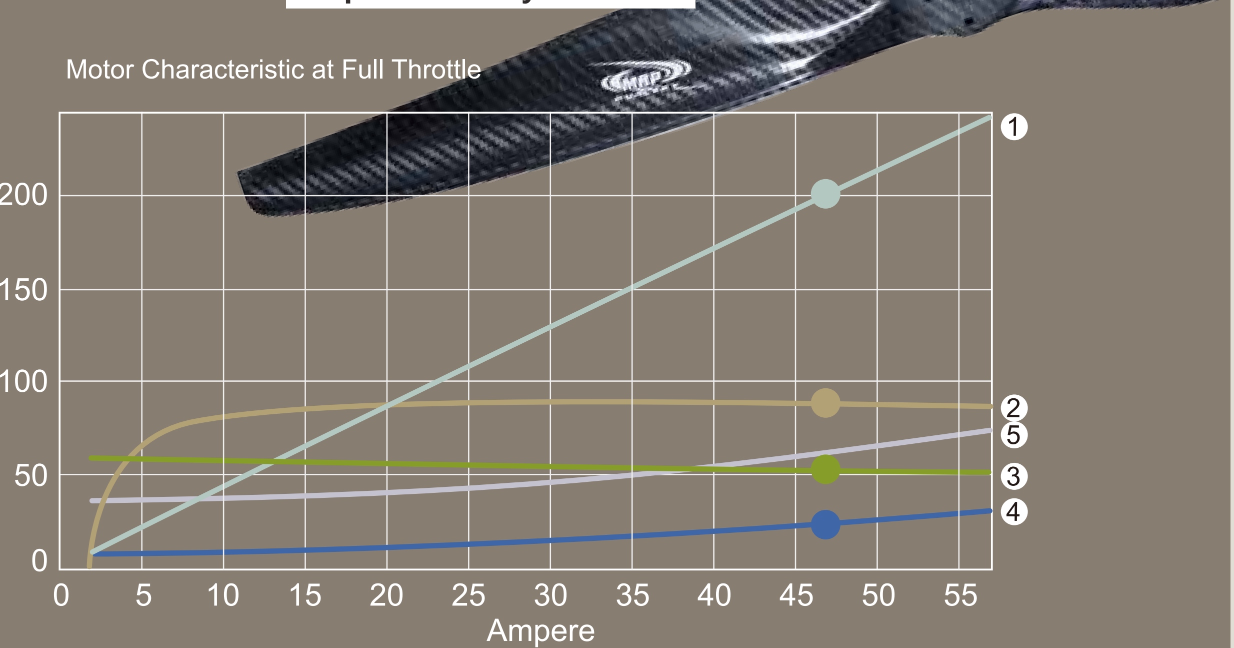

| Voltage (V) | Propeller (RPM) | Throttle (%) | Current (DC) (A) | Volage (DC) (V) | el. Power (W) | Efficiency (%) | Thrust (g) | Spec. Thrust (g/W) |
|---|---|---|---|---|---|---|---|---|
| 44.4V (12S LIPO) | 1600 | 27 | 1.3 | 44.4 | 58.5 | 80.5 | 847 | 14.5 |
| | 2000 | 35 | 2.4 | 44.3 | 108.3 | 84.8 | 1322 | 12.2 |
| | 2400 | 42 | 4.1 | 44.3 | 182.2 | 87.2 | 1904 | 10.5 |
| | 2800 | 49 | 6.5 | 44.2 | 285.2 | 88.4 | 2592 | 9.1 |
| | 3200 | 57 | 9.6 | 44.2 | 422.7 | 89.1 | 3386 | 8.0 |
| | 3600 | 64 | 13.6 | 44.1 | 600 | 89.4 | 4286 | 7.1 |
| | 4000 | 72 | 18.8 | 43.9 | 822.7 | 89.4 | 5290 | 6.4 |
| | 4400 | 80 | 25.1 | 43.8 | 1096.4 | 89.3 | 6401 | 5.8 |
| | 4800 | 88 | 32.8 | 43.6 | 1426.9 | 89.1 | 7618 | 5.3 |
| | 5200 | 97 | 42.1 | 43.3 | 1820.1 | 88.8 | 8940 | 4.9 |
| | 5350 | 100 | 46.3 | 43.2 | 1996.2 | 88.3 | 9466 | 4.7 |

**Propeller Dualsky MRP 24CF**




| Voltage (V) | Propeller (RPM) | Throttle (%) | Current (DC) (A) | Volage (DC) (V) | el. Power (W) | Efficiency (%) | Thrust (g) | Spec. Thrust (g/W) |
|---|---|---|---|---|---|---|---|---|
| 44.4V (12S LIPO) | 1600 | 28 | 1.2 | 44.4 | 52 | 81.1 | 870 | 16.9 |
| | 2000 | 35 | 2.2 | 44.3 | 96 | 85.3 | 1360 | 14.2 |
| | 2400 | 42 | 3.7 | 44.3 | 162 | 87.4 | 1958 | 12.1 |
| | 2800 | 49 | 5.7 | 44.2 | 253 | 88.6 | 2666 | 10.5 |
| | 3200 | 57 | 8.5 | 44.1 | 373 | 89.1 | 3482 | 9.3 |
| | 3600 | 64 | 12.0 | 44 | 530 | 89.3 | 4406 | 8.3 |
| | 4000 | 72 | 16.6 | 43.9 | 729 | 89.3 | 5440 | 7.5 |
| | 4400 | 80 | 22.2 | 43.7 | 972 | 89.1 | 6582 | 6.8 |
| | 4800 | 89 | 29.1 | 43.5 | 1264 | 88.8 | 7833 | 6.2 |
| | 5200 | 97 | 37.3 | 43.3 | 1614 | 88.5 | 9192 | 5.7 |
| | 5318 | 100 | 40.3 | 43.2 | 1739 | 88.1 | 9614 | 5.5 |

**Propeller Dualsky MRP 26CF**



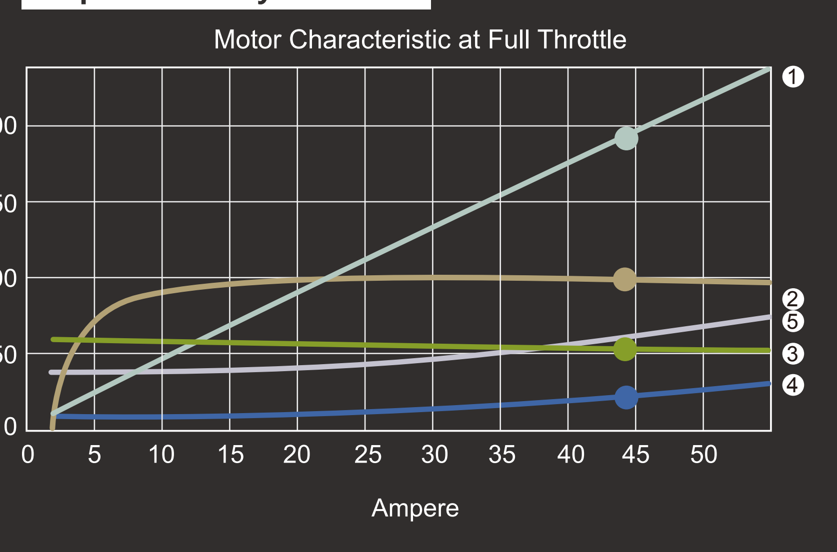

| Voltage (V) | Propeller (RPM) | Throttle (%) | Current (DC) (A) | Volage (DC) (V) | el. Power (W) | Efficiency (%) | Thrust (g) | Spec. Thrust (g/W) |
|---|---|---|---|---|---|---|---|---|
| 44.4V (12S LIPO) | 1800 | 31 | 2.0 | 44.3 | 88 | 85.4 | 1362 | 15.4 |
| | 2100 | 37 | 3.2 | 44.3 | 140 | 87.1 | 1853 | 13.3 |
| | 2400 | 42 | 4.6 | 44.3 | 206 | 88.1 | 2421 | 11.8 |
| | 2700 | 48 | 6.6 | 44.2 | 293 | 88.6 | 3064 | 10.4 |
| | 3000 | 54 | 9.0 | 44.1 | 399 | 88.8 | 3783 | 9.5 |
| | 3300 | 60 | 12.1 | 44 | 533 | 88.8 | 4578 | 8.6 |
| | 3600 | 66 | 15.8 | 43.9 | 692 | 88.7 | 5448 | 7.9 |
| | 3900 | 72 | 20.2 | 43.8 | 883 | 88.5 | 6393 | 7.2 |
| | 4200 | 78 | 25.4 | 43.6 | 1107 | 88.2 | 7416 | 6.7 |
| | 4500 | 85 | 31.5 | 43.4 | 1365 | 87.8 | 8512 | 6.2 |
| | 4800 | 91 | 38.5 | 43.2 | 1664 | 87.5 | 9686 | 5.8 |
| | 5100 | 98 | 46.7 | 43 | 2009 | 87.1 | 10934 | 5.4 |
| | 5165 | 100 | 48.9 | 42.9 | 2097 | 86.7 | 11213 | 5.3 |

## XM9010HD (125KV)

Motor @ Optimum Efficiency
最佳效率

| | |
|---|---|
| Current(电流): | 28A |
| Voltage(电压): | 44V |
| Revolutions(转速): | 4950rpm |
| Electric Power(输入功率): | 1232W |
| Mech. Power(输出功率): | 1108.8W |
| Efficiency(效率): | 90% |

**Propeller Dualsky MRP 26CF**




**线阻 11.1毫欧**

**MRP 22CF**

| 电源<br>电压 | Voltage (V)<br>工作电压 | Throttle(%)<br>油门 | Thrust(Kg)<br>拉力 | Ampere(A)<br>电流 | Power(W)<br>功率 | g/W<br>效率 |
|---|---|---|---|---|---|---|
| 45 | 44.98 | 30% | 1.07 | 2.1 | 94.5 | 11.33 |
| 45 | 44.96 | 40% | 1.50 | 3.6 | 161.9 | 9.27 |
| 45 | 44.93 | 50% | 2.16 | 5.9 | 265.1 | 8.15 |
| 45 | 44.89 | 60% | 3.22 | 9.7 | 435.5 | 7.39 |
| 45 | 44.84 | 70% | 4.20 | 14.0 | 627.8 | 6.69 |
| 45 | 44.78 | 80% | 5.40 | 19.7 | 882.2 | 6.12 |
| 45 | 44.70 | 90% | 6.83 | 27.0 | 1206.9 | 5.66 |
| 45 | 44.67 | 100% | 7.20 | 29.5 | 1317.8 | 5.46 |

**MRP 24CF**

| 电源<br>电压 | Voltage (V)<br>工作电压 | Throttle(%)<br>油门 | Thrust(Kg)<br>拉力 | Ampere(A)<br>电流 | Power(W)<br>功率 | g/W<br>效率 |
|---|---|---|---|---|---|---|
| 45 | 44.98 | 30% | 1.56 | 2.1 | 94.5 | 16.52 |
| 45 | 44.95 | 40% | 2.38 | 4.4 | 197.8 | 12.03 |
| 45 | 44.92 | 50% | 3.04 | 7.1 | 318.9 | 9.53 |
| 45 | 44.86 | 60% | 4.34 | 12.4 | 556.3 | 7.80 |
| 45 | 44.80 | 70% | 5.66 | 18.0 | 806.4 | 7.02 |
| 45 | 44.72 | 80% | 7.02 | 25.3 | 1131.4 | 6.20 |
| 45 | 44.62 | 90% | 8.73 | 34.1 | 1521.6 | 5.74 |
| 45 | 44.58 | 100% | 9.21 | 38.1 | 1698.4 | 5.42 |

**MRP 26CF**

| 电源<br>电压 | Voltage (V)<br>工作电压 | Throttle(%)<br>油门 | Thrust(Kg)<br>拉力 | Ampere(A)<br>电流 | Power(W)<br>功率 | g/W<br>效率 |
|---|---|---|---|---|---|---|
| 45 | 44.97 | 30% | 2.20 | 2.4 | 107.9 | 20.38 |
| 45 | 44.94 | 40% | 3.34 | 5.4 | 242.7 | 13.76 |
| 45 | 44.91 | 50% | 4.07 | 8.5 | 381.7 | 10.66 |
| 45 | 44.84 | 60% | 5.70 | 14.8 | 663.6 | 8.59 |
| 45 | 44.76 | 70% | 7.03 | 21.4 | 957.9 | 7.34 |
| 45 | 44.67 | 80% | 8.56 | 29.9 | 1335.6 | 6.41 |
| 45 | 44.55 | 90% | 10.00 | 40.9 | 1821.9 | 5.49 |
| 45 | 44.51 | 100% | 10.60 | 44.0 | 1958.5 | 5.41 |