

Initial Parameters...

R(load) = 500 ohms

r = 0.50

w = 0.50

```
-----
INITIAL Particle 1 :: pos(duty)= 0.40000000 fitness(Output Power)= 10.64447425
INITIAL Particle 2 :: pos(duty)= 0.60000000 fitness(Output Power)= 23.53304429
INITIAL Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

```
=====
++++Start of Iterations++++
=====
```

Iteration No: 1

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1000

0.0500

0

```
Particle 1 :: pos(duty)= 0.50000000 fitness(Output Power)= 15.76065445
Particle 2 :: pos(duty)= 0.65000000 fitness(Output Power)= 30.98951381
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

-----

Iteration No: 2

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1250

0.0625

0

```
Particle 1 :: pos(duty)= 0.62500000 fitness(Output Power)= 26.96078784
Particle 2 :: pos(duty)= 0.71250000 fitness(Output Power)= 45.00175791
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

-----

Iteration No: 3

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1063

0.0531

0

```
Particle 1 :: pos(duty)= 0.73125000 fitness(Output Power)= 50.99330530
Particle 2 :: pos(duty)= 0.76562500 fitness(Output Power)= 66.59834511
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

-----

Iteration No: 4

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0703

0.0352

0

```
Particle 1 :: pos(duty)= 0.80156250 fitness(Output Power)= 90.14882363
Particle 2 :: pos(duty)= 0.80078125 fitness(Output Power)= 89.71194028
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80156250

-----

Iteration No: 5

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0352

0.0178

0.0004

```
Particle 1 :: pos(duty)= 0.83671875 fitness(Output Power)= 126.94585537
Particle 2 :: pos(duty)= 0.81855469 fitness(Output Power)= 105.90439147
Particle 3 :: pos(duty)= 0.80039063 fitness(Output Power)= 89.27333278
```

Updated best Fitness Position = 0.83671875

-----

Iteration No: 6

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0176

0.0134

0.0093

```
Particle 1 :: pos(duty)= 0.85429687 fitness(Output Power)= 151.24856842
Particle 2 :: pos(duty)= 0.83198242 fitness(Output Power)= 120.95290113
Particle 3 :: pos(duty)= 0.80966797 fitness(Output Power)= 97.31778483
```

Updated best Fitness Position = 0.85429687

-----

Iteration No: 7

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0088

0.0123

0.0158

Particle 1 :: pos(duty)= 0.86308594 fitness(Output Power)= 163.99146564

Particle 2 :: pos(duty)= 0.84427490 fitness(Output Power)= 136.79197589

Particle 3 :: pos(duty)= 0.82546387 fitness(Output Power)= 113.42255545

Updated best Fitness Position = 0.86308594

-----

Iteration No: 8

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0044

0.0108

0.0173

Particle 1 :: pos(duty)= 0.86748047 fitness(Output Power)= 169.94316370

Particle 2 :: pos(duty)= 0.85512390 fitness(Output Power)= 152.32554214

Particle 3 :: pos(duty)= 0.84276733 fitness(Output Power)= 134.79195338

Updated best Fitness Position = 0.86748047

-----

Iteration No: 9

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0022

0.0085

0.0148

Particle 1 :: pos(duty)= 0.86967773 fitness(Output Power)= 172.68853834

Particle 2 :: pos(duty)= 0.86363754 fitness(Output Power)= 164.70575570

Particle 3 :: pos(duty)= 0.85759735 fitness(Output Power)= 156.02845044

Updated best Fitness Position = 0.86967773

-----

Iteration No: 10

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0011

0.0058

0.0104

Particle 1 :: pos(duty)= 0.87077637 fitness(Output Power)= 173.92794010

Particle 2 :: pos(duty)= 0.86940441 fitness(Output Power)= 172.31885422

Particle 3 :: pos(duty)= 0.86803246 fitness(Output Power)= 170.63918686

Updated best Fitness Position = 0.87077637

-----

Iteration No: 11

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0005

0.0032

0.0059

Particle 1 :: pos(duty)= 0.87132568 fitness(Output Power)= 174.55697645

Particle 2 :: pos(duty)= 0.87263083 fitness(Output Power)= 175.90342021

Particle 3 :: pos(duty)= 0.87393599 fitness(Output Power)= 177.07717215

Updated best Fitness Position = 0.87393599

-----

Iteration No: 12

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0009

0.0019

0.0030

Particle 1 :: pos(duty)= 0.87225292 fitness(Output Power)= 175.53377023

Particle 2 :: pos(duty)= 0.87457033 fitness(Output Power)= 177.63976290

Particle 3 :: pos(duty)= 0.87688775 fitness(Output Power)= 179.19376617

Updated best Fitness Position = 0.87688775

-----

Iteration No: 13

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0016  
0.0015  
0.0015

Particle 1 :: pos(duty)= 0.87387524 fitness(Output Power)= 177.03445806  
Particle 2 :: pos(duty)= 0.87611944 fitness(Output Power)= 178.74608869  
Particle 3 :: pos(duty)= 0.87836363 fitness(Output Power)= 179.85642479

Updated best Fitness Position = 0.87836363

-----

Iteration No: 14

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0019  
0.0013  
0.0007

Particle 1 :: pos(duty)= 0.87580850 fitness(Output Power)= 178.54700287  
Particle 2 :: pos(duty)= 0.87745504 fitness(Output Power)= 179.48083851  
Particle 3 :: pos(duty)= 0.87910157 fitness(Output Power)= 180.06434098

Updated best Fitness Position = 0.87910157

-----

Iteration No: 15

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0018  
0.0011  
0.0004

Particle 1 :: pos(duty)= 0.87759840 fitness(Output Power)= 179.55344339  
Particle 2 :: pos(duty)= 0.87853447 fitness(Output Power)= 179.90540009  
Particle 3 :: pos(duty)= 0.87947055 fitness(Output Power)= 180.13468474

Updated best Fitness Position = 0.87947055

-----

Iteration No: 16

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0014  
0.0008  
0.0002

```
Particle 1 :: pos(duty)= 0.87896139 fitness(Output Power)= 180.03004655
Particle 2 :: pos(duty)= 0.87930821 fitness(Output Power)= 180.10915508
Particle 3 :: pos(duty)= 0.87965503 fitness(Output Power)= 180.16658078
```

Updated best Fitness Position = 0.87965503

-----

Iteration No: 17

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-03 \*

0.8549

0.4736

0.0922

```
Particle 1 :: pos(duty)= 0.87981629 fitness(Output Power)= 180.18364863
Particle 2 :: pos(duty)= 0.87978178 fitness(Output Power)= 180.17969307
Particle 3 :: pos(duty)= 0.87974727 fitness(Output Power)= 180.17553039
```

Updated best Fitness Position = 0.87981629

-----

Iteration No: 18

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-03 \*

0.4275

0.2454

0.0634

```
Particle 1 :: pos(duty)= 0.88024374 fitness(Output Power)= 180.21655106
Particle 2 :: pos(duty)= 0.88002719 fitness(Output Power)= 180.20307316
Particle 3 :: pos(duty)= 0.87981065 fitness(Output Power)= 180.18364863
```

Updated best Fitness Position = 0.88024374

-----

Iteration No: 19

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-03 \*

0.2137

0.1768  
0.1400

Particle 1 ::	pos(duty)=	0.88045747	fitness(Output Power)=	180.22040503
Particle 2 ::	pos(duty)=	0.88020404	fitness(Output Power)=	180.21369650
Particle 3 ::	pos(duty)=	0.87995061	fitness(Output Power)=	180.19741424

Updated best Fitness Position = 0.88045747

-----

Iteration No: 20

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-03 \*

0.1069  
0.1518  
0.1967

Particle 1 ::	pos(duty)=	0.88056433	fitness(Output Power)=	180.21971674
Particle 2 ::	pos(duty)=	0.88035582	fitness(Output Power)=	180.21935595
Particle 3 ::	pos(duty)=	0.88014730	fitness(Output Power)=	180.21197174

Updated best Fitness Position = 0.88045747

-----

Iteration No: 21

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-03 \*

0.0000  
0.1013  
0.1759

Particle 1 ::	pos(duty)=	0.88056433	fitness(Output Power)=	180.21971674
Particle 2 ::	pos(duty)=	0.88045712	fitness(Output Power)=	180.22040503
Particle 3 ::	pos(duty)=	0.88032319	fitness(Output Power)=	180.21861699

Updated best Fitness Position = 0.88045747

-----

Iteration No: 22

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-03 \*

-0.0534  
0.0507  
0.1215

Particle 1 ::	pos(duty)=	0.88051090	fitness(Output Power)=	180.22013808
Particle 2 ::	pos(duty)=	0.88050786	fitness(Output Power)=	180.22013808
Particle 3 ::	pos(duty)=	0.88044471	fitness(Output Power)=	180.22040503

Updated best Fitness Position = 0.88045747

-----

Iteration No: 23

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-04 \*

-0.5343  
0.0009  
0.6395

Particle 1 ::	pos(duty)=	0.88045747	fitness(Output Power)=	180.22040503
Particle 2 ::	pos(duty)=	0.88050794	fitness(Output Power)=	180.22013808
Particle 3 ::	pos(duty)=	0.88050865	fitness(Output Power)=	180.22013808

Updated best Fitness Position = 0.88045747

-----

Iteration No: 24

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-04 \*

-0.2672  
-0.2528  
0.0319

Particle 1 ::	pos(duty)=	0.88043075	fitness(Output Power)=	180.22024928
Particle 2 ::	pos(duty)=	0.88048266	fitness(Output Power)=	180.22036773
Particle 3 ::	pos(duty)=	0.88051184	fitness(Output Power)=	180.22013808

Updated best Fitness Position = 0.88045747

-----

Iteration No: 25

c1 = 0.50000000 c2 = 0.50000000

velocity =



1.0e-04 \*

0.0000

-0.2533

-0.2878

Particle 1 ::	pos(duty)=	0.88043075	fitness(Output Power)=	180.22024928
Particle 2 ::	pos(duty)=	0.88045734	fitness(Output Power)=	180.22040503
Particle 3 ::	pos(duty)=	0.88048306	fitness(Output Power)=	180.22036773

Updated best Fitness Position = 0.88045747

-----

Iteration No: 26

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-04 \*

0.1336

-0.1263

-0.3038

Particle 1 ::	pos(duty)=	0.88044411	fitness(Output Power)=	180.22040503
Particle 2 ::	pos(duty)=	0.88044471	fitness(Output Power)=	180.22040503
Particle 3 ::	pos(duty)=	0.88045268	fitness(Output Power)=	180.22040503

Updated best Fitness Position = 0.88044411

-----

Iteration No: 27

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-04 \*

0.0668

-0.0646

-0.1733

Particle 1 ::	pos(duty)=	0.88045079	fitness(Output Power)=	180.22040503
Particle 2 ::	pos(duty)=	0.88043824	fitness(Output Power)=	180.22024928
Particle 3 ::	pos(duty)=	0.88043535	fitness(Output Power)=	180.22024928

Updated best Fitness Position = 0.88045079

-----

Iteration No: 28

```
c1 = 0.50000000    c2 = 0.50000000
velocity =
```

```
1.0e-05 *
```

```
0.3339
0.1520
-0.0473
```

```
Particle 1 :: pos(duty)= 0.88045413    fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88043976    fitness(Output Power)= 180.22024928
Particle 3 :: pos(duty)= 0.88043488    fitness(Output Power)= 180.22024928
```

```
Updated best Fitness Position = 0.88045413
```

```
-----
```

```
Iteration No: 29
```

```
c1 = 0.50000000    c2 = 0.50000000
velocity =
```

```
1.0e-05 *
```

```
0.1670
0.5587
0.9028
```

```
Particle 1 :: pos(duty)= 0.88045580    fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88044535    fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88044390    fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045580
```

```
-----
```

```
Iteration No: 30
```

```
c1 = 0.50000000    c2 = 0.50000000
velocity =
```

```
1.0e-05 *
```

```
0.0835
0.5406
0.7487
```

```
Particle 1 :: pos(duty)= 0.88045663    fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045076    fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045139    fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045663
```

-----

Iteration No: 31

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-05 \*

0.0417

0.4172

0.5054

Particle 1 :: pos(duty)= 0.88045705 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045493 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88045645 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045705

-----

Iteration No: 32

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-05 \*

0.0209

0.2617

0.2678

Particle 1 :: pos(duty)= 0.88045726 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045754 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88045912 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045726

-----

Iteration No: 33

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-05 \*

0.0104

0.1237

0.0873

Particle 1 :: pos(duty)= 0.88045736 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045878 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88046000 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045736

-----

Iteration No: 34

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-06 \*

0.0522

0.2639

-0.2218

Particle 1 :: pos(duty)= 0.88045742 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045904 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88045977 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045742

-----

Iteration No: 35

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-06 \*

0.0261

-0.2755

-0.7007

Particle 1 :: pos(duty)= 0.88045744 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045877 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88045907 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045744

-----

Iteration No: 36

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-06 \*

0.0130

-0.4698

-0.7585

Particle 1 :: pos(duty)= 0.88045745 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045830 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88045832 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045745

-----

Iteration No: 37

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-06 \*

0.0065

-0.4463

-0.5945

Particle 1 :: pos(duty)= 0.88045746 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045785 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88045772 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045746

-----

Iteration No: 38

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-06 \*

0.0033

-0.3213

-0.3622

Particle 1 :: pos(duty)= 0.88045746 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045753 fitness(Output Power)= 180.22040503

Particle 3 :: pos(duty)= 0.88045736 fitness(Output Power)= 180.22040503

Updated best Fitness Position = 0.88045746

-----

Iteration No: 39

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-06 \*

0.0016

-0.1777

-0.1547

Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503

Particle 2 :: pos(duty)= 0.88045735 fitness(Output Power)= 180.22040503

```
Particle 3 :: pos(duty)= 0.88045720 fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045747
```

```
-----
```

```
Iteration No: 40
```

```
c1 = 0.50000000 c2 = 0.50000000
```

```
velocity =
```

```
1.0e-07 *
```

```
0.0082
```

```
-0.6102
```

```
-0.1188
```

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
```

```
Particle 2 :: pos(duty)= 0.88045729 fitness(Output Power)= 180.22040503
```

```
Particle 3 :: pos(duty)= 0.88045719 fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045747
```

```
-----
```

```
Iteration No: 41
```

```
c1 = 0.50000000 c2 = 0.50000000
```

```
velocity =
```

```
1.0e-07 *
```

```
0.0041
```

```
0.1275
```

```
0.6271
```

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
```

```
Particle 2 :: pos(duty)= 0.88045731 fitness(Output Power)= 180.22040503
```

```
Particle 3 :: pos(duty)= 0.88045725 fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045747
```

```
-----
```

```
Iteration No: 42
```

```
c1 = 0.50000000 c2 = 0.50000000
```

```
velocity =
```

```
1.0e-07 *
```

```
0.0020
```

```
0.4656
```

```
0.8443
```

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045735 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045734 fitness(Output Power)= 180.22040503
```

Updated best Fitness Position = 0.88045747

-----

Iteration No: 43

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-07 \*

0.0010

0.5187

0.7423

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045740 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045741 fitness(Output Power)= 180.22040503
```

Updated best Fitness Position = 0.88045747

-----

Iteration No: 44

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-07 \*

0.0005

0.4158

0.5060

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045745 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045746 fitness(Output Power)= 180.22040503
```

Updated best Fitness Position = 0.88045747

-----

Iteration No: 45

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-07 \*

0.0003

0.2606

0.2615

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045749 fitness(Output Power)= 180.22040503
```

Updated best Fitness Position = 0.88045747

-----

Iteration No: 46

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-07 \*

0.0001

0.1179

0.0739

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045748 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045750 fitness(Output Power)= 180.22040503
```

Updated best Fitness Position = 0.88045747

-----

Iteration No: 47

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-08 \*

0.0006

0.1708

-0.3832

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045749 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045749 fitness(Output Power)= 180.22040503
```

Updated best Fitness Position = 0.88045747

-----

Iteration No: 48

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-08 \*



```
0.0003
-0.3757
-0.8484
```

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045748 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045749 fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045747
```

```
-----
```

```
Iteration No: 49
```

```
c1 = 0.50000000 c2 = 0.50000000
```

```
velocity =
```

```
1.0e-08 *
```

```
0.0002
-0.5549
-0.8688
```

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045748 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045748 fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045747
```

```
-----
```

```
Iteration No: 50
```

```
c1 = 0.50000000 c2 = 0.50000000
```

```
velocity =
```

```
1.0e-08 *
```

```
0.0001
-0.5058
-0.6618
```

```
Particle 1 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 2 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
Particle 3 :: pos(duty)= 0.88045747 fitness(Output Power)= 180.22040503
```

```
Updated best Fitness Position = 0.88045747
```

```
-----
```

```
>>
```