```
Initial Parameters...
R(load) = 500 ohms
r = 1.00
w = 0.50


---------
INITIAL Particle 1 ::   pos(duty)=   0.69666720    fitness(Output Power)=  44.38993712
INITIAL Particle 2 ::   pos(duty)=   0.58279097    fitness(Output Power)=  24.91191014
INITIAL Particle 3 ::   pos(duty)=   0.81539721    fitness(Output Power)= 103.25372637


================================================
+++++++++++++Start of Iterations+++++++++++++++
================================================
Iteration No: 1
c1 =   0.87901390    c2 =   0.98891162
velocity =

    0.0470
    0.0920
         0

Particle 1 ::   pos(duty)=   0.74363260    fitness(Output Power)=  56.19331028
Particle 2 ::   pos(duty)=   0.67480177    fitness(Output Power)=  38.14194079
Particle 3 ::   pos(duty)=   0.81539721    fitness(Output Power)= 103.25372637


Updated best Fitness Position =   0.81539721


--------
Iteration No: 2
c1 =   0.00052238    c2 =   0.86543859
velocity =

    0.0483
    0.0947
         0

Particle 1 ::   pos(duty)=   0.79195844    fitness(Output Power)=  86.60514184
Particle 2 ::   pos(duty)=   0.76947786    fitness(Output Power)=  72.28276608
Particle 3 ::   pos(duty)=   0.81539721    fitness(Output Power)= 103.25372637


Updated best Fitness Position =   0.81539721


--------
Iteration No: 3
c1 =   0.61256647    c2 =   0.98995021
velocity =

    0.0334
    0.0655
         0
```

```
Particle 1 ::   pos(duty)=   0.82540265    fitness(Output Power)= 114.10579781
Particle 2 ::   pos(duty)=   0.83499906    fitness(Output Power)= 126.65788382
Particle 3 ::   pos(duty)=   0.81539721    fitness(Output Power)= 103.25372637


Updated best Fitness Position =   0.83499906


--------
Iteration No: 4
c1 =   0.52768007    c2 =   0.47952339
velocity =

    0.0186
    0.0328
    0.0038

Particle 1 ::   pos(duty)=   0.84396543    fitness(Output Power)= 137.28136936
Particle 2 ::   pos(duty)=   0.86775965    fitness(Output Power)= 170.97535041
Particle 3 ::   pos(duty)=   0.81915703    fitness(Output Power)= 107.01779235


Updated best Fitness Position =   0.86775965


--------
Iteration No: 5
c1 =   0.80134761    c2 =   0.22784294
velocity =

    0.0114
    0.0164
    0.0063

Particle 1 ::   pos(duty)=   0.85541536    fitness(Output Power)= 153.71605220
Particle 2 ::   pos(duty)=   0.88413995    fitness(Output Power)= 178.85965631
Particle 3 ::   pos(duty)=   0.82546644    fitness(Output Power)= 114.10579781


Updated best Fitness Position =   0.88413995


--------
Iteration No: 6
c1 =   0.49809429    c2 =   0.90085249
velocity =

    0.0161
    0.0082
    0.0243

Particle 1 ::   pos(duty)=   0.87149098    fitness(Output Power)= 175.14535021
Particle 2 ::   pos(duty)=   0.89233010    fitness(Output Power)= 166.28009637
Particle 3 ::   pos(duty)=   0.84976362    fitness(Output Power)= 146.22780888
```

Updated best Fitness Position =   0.88413995

Iteration No: 7
c1 =   0.57466122   c2 =   0.84517819
velocity =

     0.0123
    -0.0006
     0.0238

Particle 1 ::   pos(duty)=   0.88380504   fitness(Output Power)= 179.05174434
Particle 2 ::   pos(duty)=   0.89177370   fitness(Output Power)= 167.61038422
Particle 3 ::   pos(duty)=   0.87353386   fitness(Output Power)= 177.11954390

Updated best Fitness Position =   0.88380504

Iteration No: 8
c1 =   0.73864029   c2 =   0.58598704
velocity =

     0.0062
    -0.0044
     0.0143

Particle 1 ::   pos(duty)=   0.88996207   fitness(Output Power)= 171.37850719
Particle 2 ::   pos(duty)=   0.88737224   fitness(Output Power)= 175.38478286
Particle 3 ::   pos(duty)=   0.88782649   fitness(Output Power)= 174.71657627

Updated best Fitness Position =   0.88380504

Iteration No: 9
c1 =   0.24673453   c2 =   0.66641622
velocity =

     0.0008
    -0.0035
     0.0047

Particle 1 ::   pos(duty)=   0.89079166   fitness(Output Power)= 169.74903457
Particle 2 ::   pos(duty)=   0.88390161   fitness(Output Power)= 179.05174434
Particle 3 ::   pos(duty)=   0.89249023   fitness(Output Power)= 165.82961920

Updated best Fitness Position =   0.88380504

```
--------
Iteration No: 10
c1 =   0.08348281    c2 =   0.62595979
velocity =

   -0.0016
   -0.0018
   -0.0005

Particle 1 ::    pos(duty)=   0.88922382    fitness(Output Power)= 172.54591014
Particle 2 ::    pos(duty)=   0.88214212    fitness(Output Power)= 179.92015731
Particle 3 ::    pos(duty)=   0.89201445    fitness(Output Power)= 167.17060545


Updated best Fitness Position =   0.88214212


--------
Iteration No: 11
c1 =   0.66094456    c2 =   0.72975186
velocity =

   -0.0043
   -0.0009
   -0.0080

Particle 1 ::    pos(duty)=   0.88494014    fitness(Output Power)= 178.21129434
Particle 2 ::    pos(duty)=   0.88126237    fitness(Output Power)= 180.14881493
Particle 3 ::    pos(duty)=   0.88400896    fitness(Output Power)= 179.05174434


Updated best Fitness Position =   0.88126237


--------
Iteration No: 12
c1 =   0.89075212    c2 =   0.98230322
velocity =

   -0.0040
   -0.0004
   -0.0051

Particle 1 ::    pos(duty)=   0.88094878    fitness(Output Power)= 180.19084688
Particle 2 ::    pos(duty)=   0.88082249    fitness(Output Power)= 180.19084688
Particle 3 ::    pos(duty)=   0.87892702    fitness(Output Power)= 180.03895504


Updated best Fitness Position =   0.88094878


--------
Iteration No: 13
c1 =   0.76902909    c2 =   0.58144649
velocity =
```

```
   -0.0020
   -0.0002
   -0.0021


Particle 1 ::    pos(duty)=   0.87895311    fitness(Output Power)= 180.03895504
Particle 2 ::    pos(duty)=   0.88063193    fitness(Output Power)= 180.21475826
Particle 3 ::    pos(duty)=   0.87685627    fitness(Output Power)= 179.30226694


Updated best Fitness Position =   0.88063193



--------
Iteration No: 14
c1 =   0.92831306   c2 =   0.58009037
velocity =

   1.0e-03 *

    0.1328
   -0.0953
    0.6096

Particle 1 ::    pos(duty)=   0.87908586    fitness(Output Power)= 180.11586081
Particle 2 ::    pos(duty)=   0.88053665    fitness(Output Power)= 180.21475826
Particle 3 ::    pos(duty)=   0.87746591    fitness(Output Power)= 179.49937519


Updated best Fitness Position =   0.88053665



--------
Iteration No: 15
c1 =   0.01698294   c2 =   0.12085957
velocity =

   1.0e-03 *

    0.1492
   -0.0476
    0.4632

Particle 1 ::    pos(duty)=   0.87923503    fitness(Output Power)= 180.11586081
Particle 2 ::    pos(duty)=   0.88048901    fitness(Output Power)= 180.21475826
Particle 3 ::    pos(duty)=   0.87792910    fitness(Output Power)= 179.81720176


Updated best Fitness Position =   0.88048901



--------
Iteration No: 16
c1 =   0.86271072   c2 =   0.48429651
velocity =
```

```
    0.0009
   -0.0000
    0.0011
```

Particle 1 ::   pos(duty)=   0.88014392   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88046519   fitness(Output Power)= 180.21475826
Particle 3 ::   pos(duty)=   0.87900097   fitness(Output Power)= 180.03895504

Updated best Fitness Position =   0.88014392

Iteration No: 17
c1 =   0.84485567   c2 =   0.20940508
velocity =

   1.0e-03 *

    0.4544
   -0.0388
    0.6317

Particle 1 ::   pos(duty)=   0.88059837   fitness(Output Power)= 180.21475826
Particle 2 ::   pos(duty)=   0.88042637   fitness(Output Power)= 180.21475826
Particle 3 ::   pos(duty)=   0.87963264   fitness(Output Power)= 180.17115987

Updated best Fitness Position =   0.88014392

Iteration No: 18
c1 =   0.55229134   c2 =   0.62988339
velocity =

   1.0e-03 *

    0.0123
   -0.0906
    0.4447

Particle 1 ::   pos(duty)=   0.88061070   fitness(Output Power)= 180.21475826
Particle 2 ::   pos(duty)=   0.88033579   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88007729   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88014392

Iteration No: 19
c1 =   0.03199102   c2 =   0.61471342
velocity =

```
   1.0e-03 *

  -0.1146
  -0.0925
   0.2387
```

Particle 1 ::   pos(duty)=   0.88049612   fitness(Output Power)= 180.21475826
Particle 2 ::   pos(duty)=   0.88024333   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88031600   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88014392

Iteration No: 20
c1 =   0.36241146   c2 =   0.04953258
velocity =

   1.0e-03 *

  -0.1153
  -0.0482
   0.1159

Particle 1 ::   pos(duty)=   0.88038079   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88019513   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88043195   fitness(Output Power)= 180.21475826

Updated best Fitness Position =   0.88038079

Iteration No: 21
c1 =   0.48956999   c2 =   0.19251040
velocity =

   1.0e-04 *

  -0.5766
  -0.0980
   0.3133

Particle 1 ::   pos(duty)=   0.88032313   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88018532   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88046328   fitness(Output Power)= 180.21475826

Updated best Fitness Position =   0.88032313

Iteration No: 22

```
c1 =   0.12308375    c2 =   0.20549417
velocity =

   1.0e-04 *

   -0.2883
    0.0643
   -0.0311

Particle 1 ::   pos(duty)=   0.88029430    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88019175    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88046017    fitness(Output Power)= 180.21475826


Updated best Fitness Position =   0.88029430


--------
Iteration No: 23
c1 =   0.14651491    c2 =   0.18907217
velocity =

   1.0e-04 *

   -0.1442
    0.1097
   -0.2255

Particle 1 ::   pos(duty)=   0.88027988    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88020272    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88043762    fitness(Output Power)= 180.21475826


Updated best Fitness Position =   0.88027988


--------
Iteration No: 24
c1 =   0.04265241    c2 =   0.63519792
velocity =

   1.0e-04 *

   -0.0721
    0.2509
   -0.5343

Particle 1 ::   pos(duty)=   0.88027268    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88022781    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88038420    fitness(Output Power)= 180.21989981


Updated best Fitness Position =   0.88027268
```

```
--------
Iteration No: 25
c1 =   0.28186686    c2 =   0.53859668
velocity =

   1.0e-04 *

   -0.0360
    0.2221
   -0.5074

Particle 1 ::   pos(duty)=   0.88026907    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88025002    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88033346    fitness(Output Power)= 180.21989981


Updated best Fitness Position =   0.88026907


--------
Iteration No: 26
c1 =   0.69516304    c2 =   0.49911601
velocity =

   1.0e-04 *

   -0.0180
    0.1491
   -0.3822

Particle 1 ::   pos(duty)=   0.88026727    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026493    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88029523    fitness(Output Power)= 180.21989981


Updated best Fitness Position =   0.88026727


--------
Iteration No: 27
c1 =   0.53580106    c2 =   0.44518317
velocity =

   1.0e-04 *

   -0.0090
    0.0787
   -0.2409

Particle 1 ::   pos(duty)=   0.88026637    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88027280    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88027114    fitness(Output Power)= 180.21989981


Updated best Fitness Position =   0.88026637
```

```
--------
Iteration No: 28
c1 =   0.12393228    c2 =   0.49035729
velocity =

   1.0e-04 *

   -0.0045
    0.0267
   -0.1298

Particle 1 ::   pos(duty)=   0.88026592    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88027547    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88025816    fitness(Output Power)= 180.21989981


Updated best Fitness Position =   0.88026592


--------
Iteration No: 29
c1 =   0.85299816    c2 =   0.87392741
velocity =

   1.0e-05 *

   -0.0225
   -0.2004
   -0.3779

Particle 1 ::   pos(duty)=   0.88026569    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88027347    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88025438    fitness(Output Power)= 180.21989981


Updated best Fitness Position =   0.88026569


--------
Iteration No: 30
c1 =   0.27029433    c2 =   0.20846136
velocity =

   1.0e-05 *

   -0.0113
   -0.1650
   -0.0946

Particle 1 ::   pos(duty)=   0.88026558    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88027182    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88025343    fitness(Output Power)= 180.21989981
```

Updated best Fitness Position =   0.88026558

Iteration No: 31
c1 =   0.56497957   c2 =   0.64031183
velocity =

   1.0e-05 *

  -0.0056
  -0.2423
   0.2638

Particle 1 ::   pos(duty)=   0.88026552   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026940   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88025607   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026552

Iteration No: 32
c1 =   0.41702895   c2 =   0.20597552
velocity =

   1.0e-05 *

  -0.0028
  -0.1531
   0.2098

Particle 1 ::   pos(duty)=   0.88026550   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026787   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88025817   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026550

Iteration No: 33
c1 =   0.94793312   c2 =   0.08207121
velocity =

   1.0e-05 *

  -0.0014
  -0.0843
   0.1289

Particle 1 ::   pos(duty)=   0.88026548   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026702   fitness(Output Power)= 180.21989981

Particle 3 ::   pos(duty)=   0.88025946   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026548

Iteration No: 34
c1 =   0.10570943   c2 =   0.14204112
velocity =

   1.0e-06 *

   -0.0070
   -0.5092
    0.9868

Particle 1 ::   pos(duty)=   0.88026548   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026651   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026045   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026548

Iteration No: 35
c1 =   0.16646044   c2 =   0.62095864
velocity =

   1.0e-05 *

   -0.0004
   -0.0513
    0.1742

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026600   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026219   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 36
c1 =   0.57370976   c2 =   0.05207789
velocity =

   1.0e-06 *

   -0.0018
   -0.2674
    0.9396

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026573   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026313   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 37
c1 =   0.93120138   c2 =   0.72866168
velocity =

   1.0e-05 *

  -0.0001
  -0.0211
   0.1152

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026552   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026428   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 38
c1 =   0.73784165   c2 =   0.06340450
velocity =

   1.0e-06 *

  -0.0004
  -0.1068
   0.6062

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026542   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026489   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 39
c1 =   0.86044056   c2 =   0.93440512
velocity =

   1.0e-06 *

  -0.0002
  -0.0340

    0.5205

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026538   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026541   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 40
c1 =   0.98439831   c2 =   0.85893882
velocity =

    1.0e-06 *

    -0.0001
     0.0124
     0.2811

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026540   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026569   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 41
c1 =   0.78555899   c2 =   0.51337742
velocity =

    1.0e-07 *

    -0.0005
     0.2122
     0.9531

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026542   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026578   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 42
c1 =   0.17760246   c2 =   0.39858950
velocity =

    1.0e-07 *

```
    -0.0003
     0.1887
    -0.0269
```

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026544   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026578   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 43
c1 =   0.13393125   c2 =   0.03088955
velocity =

    1.0e-08 *

    -0.0014
     0.9842
    -0.5214

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026544   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026578   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 44
c1 =   0.93914171   c2 =   0.30130606
velocity =

    1.0e-07 *

    -0.0001
     0.0770
    -0.3972

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026545   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026574   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 45
c1 =   0.29553383   c2 =   0.33293628
velocity =

```
   1.0e-07 *

  -0.0000
   0.0590
  -0.5558
```

```
Particle 1 ::   pos(duty)=   0.88026547    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026546    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026568    fitness(Output Power)= 180.21989981
```

```
Updated best Fitness Position =   0.88026547
```

```
--------
Iteration No: 46
c1 =   0.46706819    c2 =   0.64819841
velocity =

   1.0e-07 *

  -0.0000
   0.0540
  -0.8292
```

```
Particle 1 ::   pos(duty)=   0.88026547    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026546    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026560    fitness(Output Power)= 180.21989981
```

```
Updated best Fitness Position =   0.88026547
```

```
--------
Iteration No: 47
c1 =   0.02522818    c2 =   0.84220661
velocity =

   1.0e-07 *

  -0.0000
   0.0407
  -0.8516
```

```
Particle 1 ::   pos(duty)=   0.88026547    fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026547    fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026551    fitness(Output Power)= 180.21989981
```

```
Updated best Fitness Position =   0.88026547
```

```
--------
Iteration No: 48
c1 =   0.55903254    c2 =   0.85409995
```

velocity =

   1.0e-07 *

  -0.0000
   0.0203
  -0.5780

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026545   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 49
c1 =   0.34787919   c2 =   0.44602665
velocity =

   1.0e-07 *

  -0.0000
   0.0065
  -0.2654

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026543   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

Iteration No: 50
c1 =   0.05423948   c2 =   0.17710753
velocity =

   1.0e-07 *

  -0.0000
   0.0013
  -0.1045

Particle 1 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 2 ::   pos(duty)=   0.88026547   fitness(Output Power)= 180.21989981
Particle 3 ::   pos(duty)=   0.88026542   fitness(Output Power)= 180.21989981

Updated best Fitness Position =   0.88026547

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