

Initial Parameters...

R(load) = 50 ohms

r = 1.00

w = 0.90

INITIAL Particle 1 ::	pos(duty)=	0.90000000	fitness(Output Power)=	5.33009620
INITIAL Particle 2 ::	pos(duty)=	0.30000000	fitness(Output Power)=	65.36757365
INITIAL Particle 3 ::	pos(duty)=	0.65000000	fitness(Output Power)=	65.38596193

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

=====
+++++++ Irradiance = 600 W/sqm ++++++
=====

Iteration No: 1

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.1250

0.1750

0

Particle 1 ::	pos(duty)=	0.77500000	fitness(Output Power)=	27.04251651
Particle 2 ::	pos(duty)=	0.47500000	fitness(Output Power)=	98.72701508
Particle 3 ::	pos(duty)=	0.65000000	fitness(Output Power)=	65.38596193

Updated best Fitness Position = 0.47500000

Iteration No: 2

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.2625

0.1575

-0.0875

Particle 1 ::	pos(duty)=	0.51250000	fitness(Output Power)=	103.23493949
Particle 2 ::	pos(duty)=	0.63250000	fitness(Output Power)=	72.00284430
Particle 3 ::	pos(duty)=	0.56250000	fitness(Output Power)=	97.67751033

Updated best Fitness Position = 0.51250000

Iteration No: 3

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.2363
0.0030
-0.1038

Particle 1 ::	pos(duty)=	0.27625000	fitness(Output Power)=	61.66897623
Particle 2 ::	pos(duty)=	0.63550000	fitness(Output Power)=	70.83832713
Particle 3 ::	pos(duty)=	0.45875000	fitness(Output Power)=	95.74745190

Updated best Fitness Position = 0.51250000

Iteration No: 4

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0236
-0.1391
-0.0146

Particle 1 ::	pos(duty)=	0.29987500	fitness(Output Power)=	65.36757365
Particle 2 ::	pos(duty)=	0.49645000	fitness(Output Power)=	101.89028226
Particle 3 ::	pos(duty)=	0.44412500	fitness(Output Power)=	92.83482983

Updated best Fitness Position = 0.51250000

Iteration No: 5

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.2339
-0.1171
0.0802

Particle 1 ::	pos(duty)=	0.53376250	fitness(Output Power)=	102.93495900
Particle 2 ::	pos(duty)=	0.37933000	fitness(Output Power)=	79.54107699
Particle 3 ::	pos(duty)=	0.52433750	fitness(Output Power)=	103.41651331

Updated best Fitness Position = 0.52433750

Iteration No: 6

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1952
0.0257
0.0722

```
Particle 1 :: pos(duty)= 0.72891750 fitness(Output Power)= 39.27070461
Particle 2 :: pos(duty)= 0.40498575 fitness(Output Power)= 84.73363260
Particle 3 :: pos(duty)= 0.59652875 fitness(Output Power)= 85.97968770
```

Updated best Fitness Position = 0.52433750

Iteration No: 7

c1 = 0.50000000 c2 = 0.50000000

velocity =

```
-0.0349
0.1285
-0.0072
```

```
Particle 1 :: pos(duty)= 0.69405825 fitness(Output Power)= 50.02342020
Particle 2 :: pos(duty)= 0.53348392 fitness(Output Power)= 102.96379859
Particle 3 :: pos(duty)= 0.58930963 fitness(Output Power)= 88.72342642
```

Updated best Fitness Position = 0.52433750

Iteration No: 8

c1 = 0.50000000 c2 = 0.50000000

velocity =

```
-0.2070
0.1111
-0.0715
```

```
Particle 1 :: pos(duty)= 0.48704543 fitness(Output Power)= 100.65295472
Particle 2 :: pos(duty)= 0.64455907 fitness(Output Power)= 67.40102716
Particle 3 :: pos(duty)= 0.51784029 fitness(Output Power)= 103.41483519
```

Updated best Fitness Position = 0.52433750

Iteration No: 9

c1 = 0.50000000 c2 = 0.50000000

velocity =

```
-0.1549
-0.0157
-0.0578
```

```
Particle 1 :: pos(duty)= 0.33210721 fitness(Output Power)= 70.78065857
Particle 2 :: pos(duty)= 0.62887834 fitness(Output Power)= 73.39142003
Particle 3 :: pos(duty)= 0.46001510 fitness(Output Power)= 95.99269395
```

Updated best Fitness Position = 0.52433750

Iteration No: 10

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0469

-0.1141

0.0123

Particle 1 :: pos(duty)= 0.37897435 fitness(Output Power)= 79.40235570

Particle 2 :: pos(duty)= 0.51479806 fitness(Output Power)= 103.33221273

Particle 3 :: pos(duty)= 0.47229483 fitness(Output Power)= 98.26319490

Updated best Fitness Position = 0.52433750

Iteration No: 11

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1816

-0.0979

0.0631

Particle 1 :: pos(duty)= 0.56059918 fitness(Output Power)= 98.20806389

Particle 2 :: pos(duty)= 0.41689552 fitness(Output Power)= 87.14997577

Particle 3 :: pos(duty)= 0.53538926 fitness(Output Power)= 102.79078286

Updated best Fitness Position = 0.52433750

Iteration No: 12

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1213

0.0146

0.0457

Particle 1 :: pos(duty)= 0.68188110 fitness(Output Power)= 54.07346412

Particle 2 :: pos(duty)= 0.43145550 fitness(Output Power)= 90.25204510

Particle 3 :: pos(duty)= 0.58112249 fitness(Output Power)= 91.71011206

Updated best Fitness Position = 0.52433750

Iteration No: 13

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0543

0.1012

-0.0156

Particle 1 :: pos(duty)= 0.62757247 fitness(Output Power)= 73.87512570

Particle 2 :: pos(duty)= 0.53267176 fitness(Output Power)= 103.02818922

Particle 3 :: pos(duty)= 0.56549741 fitness(Output Power)= 96.82982849

Updated best Fitness Position = 0.52433750

Iteration No: 14

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.1580

0.0780

-0.0552

Particle 1 :: pos(duty)= 0.46954099 fitness(Output Power)= 97.77095123

Particle 2 :: pos(duty)= 0.61066241 fitness(Output Power)= 80.49988166

Particle 3 :: pos(duty)= 0.51027493 fitness(Output Power)= 103.11523230

Updated best Fitness Position = 0.52433750

Iteration No: 15

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0934

-0.0209

-0.0356

Particle 1 :: pos(duty)= 0.37619042 fitness(Output Power)= 78.98255824

Particle 2 :: pos(duty)= 0.58975937 fitness(Output Power)= 88.57277762

Particle 3 :: pos(duty)= 0.47463727 fitness(Output Power)= 98.68188389

Updated best Fitness Position = 0.52433750

Iteration No: 16

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0582
-0.0890
0.0176

Particle 1 ::	pos(duty)=	0.43440323	fitness(Output Power)=	90.86994010
Particle 2 ::	pos(duty)=	0.50075504	fitness(Output Power)=	102.34626398
Particle 3 ::	pos(duty)=	0.49226361	fitness(Output Power)=	101.36638466

Updated best Fitness Position = 0.52433750

Iteration No: 17

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1364
-0.0613
0.0479

Particle 1 ::	pos(duty)=	0.57081029	fitness(Output Power)=	95.20854636
Particle 2 ::	pos(duty)=	0.43946388	fitness(Output Power)=	91.88145864
Particle 3 ::	pos(duty)=	0.54020121	fitness(Output Power)=	102.25584732

Updated best Fitness Position = 0.52433750

Iteration No: 18

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0704
0.0249
0.0273

Particle 1 ::	pos(duty)=	0.64118510	fitness(Output Power)=	68.66698399
Particle 2 ::	pos(duty)=	0.46440574	fitness(Output Power)=	96.81001831
Particle 3 ::	pos(duty)=	0.56748134	fitness(Output Power)=	96.23900563

Updated best Fitness Position = 0.52433750

Iteration No: 19

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0594
0.0776
-0.0186

```
Particle 1 :: pos(duty)= 0.58175608 fitness(Output Power)= 91.50701392
Particle 2 :: pos(duty)= 0.54201545 fitness(Output Power)= 102.02424910
Particle 3 :: pos(duty)= 0.54888962 fitness(Output Power)= 100.87020798
```

```
Updated best Fitness Position = 0.52433750
```

```
-----
```

```
Iteration No: 20
```

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

```
velocity =
```

```
-0.1168
```

```
0.0474
```

```
-0.0413
```

```
Particle 1 :: pos(duty)= 0.46493263 fitness(Output Power)= 96.92169028
Particle 2 :: pos(duty)= 0.58941652 fitness(Output Power)= 88.69331525
Particle 3 :: pos(duty)= 0.50760495 fitness(Output Power)= 102.94237784
```

```
Updated best Fitness Position = 0.52433750
```

```
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```

```
Initial Parameters...
```

```
R(load) = 50 ohms
```

```
r = 1.00
```

```
w = 0.90
```

```
-----
```

```
INITIAL Particle 1 :: pos(duty)= 0.46493263 fitness(Output Power)= 111.12281916
INITIAL Particle 2 :: pos(duty)= 0.58941652 fitness(Output Power)= 141.01932045
INITIAL Particle 3 :: pos(duty)= 0.50760495 fitness(Output Power)= 124.84528517
```

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

```
=====
+++++++ Irradiance = 800 W/sqm ++++++
=====
```

```
Iteration No: 1
```

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

```
velocity =
```

```
-0.0517
```

```
-0.0272
```

```
-0.0204
```

```
Particle 1 :: pos(duty)= 0.41327765 fitness(Output Power)= 95.89864102
Particle 2 :: pos(duty)= 0.56222874 fitness(Output Power)= 139.80337610
Particle 3 :: pos(duty)= 0.48718130 fitness(Output Power)= 118.22183608
```

Updated best Fitness Position = 0.56222874

Iteration No: 2

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0776

-0.0245

0.0191

Particle 1 :: pos(duty)= 0.49087488 fitness(Output Power)= 119.36788705

Particle 2 :: pos(duty)= 0.53775974 fitness(Output Power)= 134.16822859

Particle 3 :: pos(duty)= 0.50632373 fitness(Output Power)= 124.49845248

Updated best Fitness Position = 0.56222874

Iteration No: 3

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1055

0.0024

0.0452

Particle 1 :: pos(duty)= 0.59638933 fitness(Output Power)= 140.01931518

Particle 2 :: pos(duty)= 0.54020664 fitness(Output Power)= 134.86905095

Particle 3 :: pos(duty)= 0.55150443 fitness(Output Power)= 137.68930632

Updated best Fitness Position = 0.59638933

Iteration No: 4

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0950

0.0413

0.0631

Particle 1 :: pos(duty)= 0.69135232 fitness(Output Power)= 90.40819459

Particle 2 :: pos(duty)= 0.58151124 fitness(Output Power)= 141.44290944

Particle 3 :: pos(duty)= 0.61460950 fitness(Output Power)= 134.43050250

Updated best Fitness Position = 0.58151124

Iteration No: 5

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0169

0.0372

0.0087

Particle 1 :: pos(duty)= 0.67441698 fitness(Output Power)= 100.43799581

Particle 2 :: pos(duty)= 0.61868538 fitness(Output Power)= 132.65955251

Particle 3 :: pos(duty)= 0.62330240 fitness(Output Power)= 130.46530444

Updated best Fitness Position = 0.58151124

Iteration No: 6

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.1007

-0.0037

-0.0490

Particle 1 :: pos(duty)= 0.57370848 fitness(Output Power)= 141.18322797

Particle 2 :: pos(duty)= 0.61496797 fitness(Output Power)= 134.30328475

Particle 3 :: pos(duty)= 0.57433145 fitness(Output Power)= 141.22900922

Updated best Fitness Position = 0.58151124

Iteration No: 7

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0867

-0.0368

-0.0405

Particle 1 :: pos(duty)= 0.48697221 fitness(Output Power)= 118.22183608

Particle 2 :: pos(duty)= 0.57816557 fitness(Output Power)= 141.40931710

Particle 3 :: pos(duty)= 0.53384749 fitness(Output Power)= 133.06502618

Updated best Fitness Position = 0.58151124

Iteration No: 8

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0126
-0.0298
0.0076

Particle 1 ::	pos(duty)=	0.49954722	fitness(Output Power)=	122.30909621
Particle 2 ::	pos(duty)=	0.54838909	fitness(Output Power)=	136.95506582
Particle 3 ::	pos(duty)=	0.54148578	fitness(Output Power)=	135.17265560

Updated best Fitness Position = 0.58151124

Iteration No: 9

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0894
0.0063
0.0433

Particle 1 ::	pos(duty)=	0.58892737	fitness(Output Power)=	141.07031064
Particle 2 ::	pos(duty)=	0.55471241	fitness(Output Power)=	138.38338869
Particle 3 ::	pos(duty)=	0.58479581	fitness(Output Power)=	141.35624479

Updated best Fitness Position = 0.58151124

Iteration No: 10

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0691
0.0325
0.0373

Particle 1 ::	pos(duty)=	0.65805200	fitness(Output Power)=	110.39577533
Particle 2 ::	pos(duty)=	0.58720223	fitness(Output Power)=	141.21313154
Particle 3 ::	pos(duty)=	0.62213256	fitness(Output Power)=	131.03414504

Updated best Fitness Position = 0.58151124

Iteration No: 11

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0182
0.0235

-0.0054

Particle 1 ::	pos(duty)=	0.63982203	fitness(Output Power)=	121.42065458
Particle 2 ::	pos(duty)=	0.61075209	fitness(Output Power)=	135.96021224
Particle 3 ::	pos(duty)=	0.61675660	fitness(Output Power)=	133.52625386

Updated best Fitness Position = 0.58151124

Iteration No: 12

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0786

-0.0080

-0.0384

Particle 1 ::	pos(duty)=	0.56120289	fitness(Output Power)=	139.61155519
Particle 2 ::	pos(duty)=	0.60270611	fitness(Output Power)=	138.54399309
Particle 3 ::	pos(duty)=	0.57831517	fitness(Output Power)=	141.41265632

Updated best Fitness Position = 0.58151124

Iteration No: 13

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0544

-0.0284

-0.0330

Particle 1 ::	pos(duty)=	0.50685264	fitness(Output Power)=	124.61462406
Particle 2 ::	pos(duty)=	0.57426987	fitness(Output Power)=	141.22022570
Particle 3 ::	pos(duty)=	0.54531592	fitness(Output Power)=	136.19127215

Updated best Fitness Position = 0.58151124

Iteration No: 14

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0218

-0.0184

0.0049

Particle 1 ::	pos(duty)=	0.52869463	fitness(Output Power)=	131.53840074
Particle 2 ::	pos(duty)=	0.55591862	fitness(Output Power)=	138.64460092

Particle 3 :: pos(duty)= 0.55021388 fitness(Output Power)= 137.37801250

Updated best Fitness Position = 0.58151124

Iteration No: 15

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0686

0.0091

0.0341

Particle 1 :: pos(duty)= 0.59726766 fitness(Output Power)= 139.83699709

Particle 2 :: pos(duty)= 0.56499512 fitness(Output Power)= 140.21925623

Particle 3 :: pos(duty)= 0.58432137 fitness(Output Power)= 141.37530496

Updated best Fitness Position = 0.58151124

Iteration No: 16

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0421

0.0247

0.0263

Particle 1 :: pos(duty)= 0.63932558 fitness(Output Power)= 121.70210372

Particle 2 :: pos(duty)= 0.58968010 fitness(Output Power)= 140.99809926

Particle 3 :: pos(duty)= 0.61060995 fitness(Output Power)= 136.01891047

Updated best Fitness Position = 0.58151124

Iteration No: 17

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0239

0.0140

-0.0070

Particle 1 :: pos(duty)= 0.61546199 fitness(Output Power)= 134.07904950

Particle 2 :: pos(duty)= 0.60372772 fitness(Output Power)= 138.28079849

Particle 3 :: pos(duty)= 0.60357292 fitness(Output Power)= 138.30507346

Updated best Fitness Position = 0.58151124

Iteration No: 18

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0593

-0.0096

-0.0300

Particle 1 :: pos(duty)= 0.55613263 fitness(Output Power)= 138.68078011

Particle 2 :: pos(duty)= 0.59415410 fitness(Output Power)= 140.40328365

Particle 3 :: pos(duty)= 0.57357988 fitness(Output Power)= 141.17350934

Updated best Fitness Position = 0.58151124

Iteration No: 19

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0319

-0.0213

-0.0207

Particle 1 :: pos(duty)= 0.52421343 fitness(Output Power)= 130.19159984

Particle 2 :: pos(duty)= 0.57289499 fitness(Output Power)= 141.12206773

Particle 3 :: pos(duty)= 0.55291947 fitness(Output Power)= 137.98555438

Updated best Fitness Position = 0.58151124

Iteration No: 20

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0247

-0.0105

0.0084

Particle 1 :: pos(duty)= 0.54888259 fitness(Output Power)= 137.05129845

Particle 2 :: pos(duty)= 0.56237804 fitness(Output Power)= 139.82978086

Particle 3 :: pos(duty)= 0.56131883 fitness(Output Power)= 139.63971301

Updated best Fitness Position = 0.58151124

Initial Parameters...

```
R(load) = 50 ohms
r = 1.00
w = 0.90
```

```
-----
INITIAL Particle 1 :: pos(duty)= 0.54888259 fitness(Output Power)= 155.70731797
INITIAL Particle 2 :: pos(duty)= 0.56237804 fitness(Output Power)= 161.84544094
INITIAL Particle 3 :: pos(duty)= 0.56131883 fitness(Output Power)= 161.44740104
```

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

```
=====
+++++++ Irradiance = 1000 W/sqm ++++++
=====
```

```
Iteration No: 1
c1 = 0.50000000 c2 = 0.50000000
velocity =
```

```
0.0509
0.0097
0.0262
```

```
Particle 1 :: pos(duty)= 0.59981210 fitness(Output Power)= 176.68027529
Particle 2 :: pos(duty)= 0.57204599 fitness(Output Power)= 166.17936770
Particle 3 :: pos(duty)= 0.58747263 fitness(Output Power)= 172.54202137
```

```
Updated best Fitness Position = 0.59981210
```

```
-----
Iteration No: 2
c1 = 0.50000000 c2 = 0.50000000
velocity =
```

```
0.0458
0.0226
0.0297
```

```
Particle 1 :: pos(duty)= 0.64564866 fitness(Output Power)= 174.78473449
Particle 2 :: pos(duty)= 0.59463020 fitness(Output Power)= 175.03086047
Particle 3 :: pos(duty)= 0.61718079 fitness(Output Power)= 180.03004655
```

```
Updated best Fitness Position = 0.61718079
```

```
-----
Iteration No: 3
c1 = 0.50000000 c2 = 0.50000000
velocity =
```

```
0.0041
```

0.0316
0.0267

Particle 1 ::	pos(duty)=	0.64974935	fitness(Output Power)=	172.73550133
Particle 2 ::	pos(duty)=	0.62623128	fitness(Output Power)=	180.06071710
Particle 3 ::	pos(duty)=	0.64391812	fitness(Output Power)=	175.57928206

Updated best Fitness Position = 0.62623128

Iteration No: 4

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0330
0.0284
0.0019

Particle 1 ::	pos(duty)=	0.61671231	fitness(Output Power)=	179.98211972
Particle 2 ::	pos(duty)=	0.65467225	fitness(Output Power)=	169.83233373
Particle 3 ::	pos(duty)=	0.64576964	fitness(Output Power)=	174.75069171

Updated best Fitness Position = 0.62623128

Iteration No: 5

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0250
-0.0028
-0.0224

Particle 1 ::	pos(duty)=	0.59173846	fitness(Output Power)=	174.05706932
Particle 2 ::	pos(duty)=	0.65182815	fitness(Output Power)=	171.53701154
Particle 3 ::	pos(duty)=	0.62337239	fitness(Output Power)=	180.20510769

Updated best Fitness Position = 0.62337239

Iteration No: 6

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0058
-0.0296
-0.0202

Particle 1 ::	pos(duty)=	0.59756588	fitness(Output Power)=	176.00565095
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```
Particle 2 :: pos(duty)= 0.62224215 fitness(Output Power)= 180.21971674
Particle 3 :: pos(duty)= 0.60321487 fitness(Output Power)= 177.60173404
```

```
Updated best Fitness Position = 0.62224215
```

```
-----
```

```
Iteration No: 7
```

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

```
velocity =
```

```
0.0272
-0.0266
0.0015
```

```
Particle 1 :: pos(duty)= 0.62472191 fitness(Output Power)= 180.15381551
Particle 2 :: pos(duty)= 0.59561474 fitness(Output Power)= 175.36962983
Particle 3 :: pos(duty)= 0.60466550 fitness(Output Power)= 177.96749201
```

```
Updated best Fitness Position = 0.62224215
```

```
-----
```

```
Iteration No: 8
```

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

```
velocity =
```

```
0.0232
0.0027
0.0194
```

```
Particle 1 :: pos(duty)= 0.64792246 fitness(Output Power)= 173.69674907
Particle 2 :: pos(duty)= 0.59827748 fitness(Output Power)= 176.20566917
Particle 3 :: pos(duty)= 0.62411284 fitness(Output Power)= 180.18011101
```

```
Updated best Fitness Position = 0.62224215
```

```
-----
```

```
Iteration No: 9
```

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

```
velocity =
```

```
-0.0036
0.0264
0.0162
```

```
Particle 1 :: pos(duty)= 0.64436252 fitness(Output Power)= 175.38478286
Particle 2 :: pos(duty)= 0.62463861 fitness(Output Power)= 180.15864056
Particle 3 :: pos(duty)= 0.64030987 fitness(Output Power)= 177.02709809
```


Updated best Fitness Position = 0.62224215

Iteration No: 10

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0241

0.0213

-0.0029

Particle 1 :: pos(duty)= 0.62027809 fitness(Output Power)= 180.19427989

Particle 2 :: pos(duty)= 0.64596717 fitness(Output Power)= 174.64812846

Particle 3 :: pos(duty)= 0.63738460 fitness(Output Power)= 177.97251331

Updated best Fitness Position = 0.62224215

Iteration No: 11

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0207

-0.0045

-0.0172

Particle 1 :: pos(duty)= 0.59958413 fitness(Output Power)= 176.58822083

Particle 2 :: pos(duty)= 0.64143784 fitness(Output Power)= 176.59627927

Particle 3 :: pos(duty)= 0.62017453 fitness(Output Power)= 180.19094132

Updated best Fitness Position = 0.62224215

Iteration No: 12

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0031

-0.0233

-0.0129

Particle 1 :: pos(duty)= 0.60263555 fitness(Output Power)= 177.44633634

Particle 2 :: pos(duty)= 0.61816576 fitness(Output Power)= 180.09509245

Particle 3 :: pos(duty)= 0.60731820 fitness(Output Power)= 178.54700287

Updated best Fitness Position = 0.62224215

Iteration No: 13

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0214

-0.0169

0.0039

Particle 1 :: pos(duty)= 0.62400640 fitness(Output Power)= 180.18386976

Particle 2 :: pos(duty)= 0.60129727 fitness(Output Power)= 177.07717215

Particle 3 :: pos(duty)= 0.61123658 fitness(Output Power)= 179.30226694

Updated best Fitness Position = 0.62224215

Iteration No: 14

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0165

0.0058

0.0151

Particle 1 :: pos(duty)= 0.64049388 fitness(Output Power)= 176.94259161

Particle 2 :: pos(duty)= 0.60706051 fitness(Output Power)= 178.48746873

Particle 3 :: pos(duty)= 0.62633381 fitness(Output Power)= 180.05315632

Updated best Fitness Position = 0.62224215

Iteration No: 15

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0044

0.0204

0.0101

Particle 1 :: pos(duty)= 0.63609885 fitness(Output Power)= 178.34927786

Particle 2 :: pos(duty)= 0.62742906 fitness(Output Power)= 179.95916441

Particle 3 :: pos(duty)= 0.63639478 fitness(Output Power)= 178.25773551

Updated best Fitness Position = 0.62224215

Iteration No: 16

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0188
0.0131
-0.0045

Particle 1 ::	pos(duty)=	0.61730459	fitness(Output Power)=	180.03895504
Particle 2 ::	pos(duty)=	0.64057385	fitness(Output Power)=	176.91423626
Particle 3 ::	pos(duty)=	0.63186214	fitness(Output Power)=	179.31584764

Updated best Fitness Position = 0.62224215

Iteration No: 17

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0130
-0.0065
-0.0131

Particle 1 ::	pos(duty)=	0.60434528	fitness(Output Power)=	177.86113135
Particle 2 ::	pos(duty)=	0.63407245	fitness(Output Power)=	178.85965631
Particle 3 ::	pos(duty)=	0.61872790	fitness(Output Power)=	180.12862488

Updated best Fitness Position = 0.62224215

Iteration No: 18

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0053
-0.0177
-0.0077

Particle 1 ::	pos(duty)=	0.60959674	fitness(Output Power)=	179.00599579
Particle 2 ::	pos(duty)=	0.61639089	fitness(Output Power)=	179.96135472
Particle 3 ::	pos(duty)=	0.61098645	fitness(Output Power)=	179.25967359

Updated best Fitness Position = 0.62224215

Iteration No: 19

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0164
-0.0101
0.0049

```
Particle 1 :: pos(duty)= 0.62598643 fitness(Output Power)= 180.08239806
Particle 2 :: pos(duty)= 0.60632874 fitness(Output Power)= 178.33339060
Particle 3 :: pos(duty)= 0.61583997 fitness(Output Power)= 179.90540009
```

```
Updated best Fitness Position = 0.62224215
```

```
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```

```
Iteration No: 20
```

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

```
velocity =
```

```
0.0100
```

```
0.0069
```

```
0.0113
```

```
Particle 1 :: pos(duty)= 0.63601084 fitness(Output Power)= 178.37188198
Particle 2 :: pos(duty)= 0.61318621 fitness(Output Power)= 179.58821301
Particle 3 :: pos(duty)= 0.62717543 fitness(Output Power)= 179.97771251
```

```
Updated best Fitness Position = 0.62224215
```

```
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```

```
>>
```