

Initial Parameters...

R(load) = 50 ohms

r = 1.00

w = 0.90

```
-----
INITIAL Particle 1 :: pos(duty)= 0.90000000 fitness(Output Power)= 14.82398709
INITIAL Particle 2 :: pos(duty)= 0.30000000 fitness(Output Power)= 73.79148117
INITIAL Particle 3 :: pos(duty)= 0.65000000 fitness(Output Power)= 172.58394631
```

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

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=====
+++++++ Irradiance = 1000 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)= 75.15135528
Particle 2 :: pos(duty)= 0.47500000 fitness(Output Power)= 123.40983699
Particle 3 :: pos(duty)= 0.65000000 fitness(Output Power)= 172.58394631
```

Updated best Fitness Position = 0.65000000

Iteration No: 2

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.1750

0.2450

0

```
Particle 1 :: pos(duty)= 0.60000000 fitness(Output Power)= 176.72577189
Particle 2 :: pos(duty)= 0.72000000 fitness(Output Power)= 116.22584494
Particle 3 :: pos(duty)= 0.65000000 fitness(Output Power)= 172.58394631
```

Updated best Fitness Position = 0.60000000

Iteration No: 3

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.1575
0.0380
-0.0250

Particle 1 ::	pos(duty)=	0.44250000	fitness(Output Power)=	111.33922692
Particle 2 ::	pos(duty)=	0.75800000	fitness(Output Power)=	86.91770716
Particle 3 ::	pos(duty)=	0.62500000	fitness(Output Power)=	180.13828962

Updated best Fitness Position = 0.62500000

Iteration No: 4

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0282
-0.1738
-0.0225

Particle 1 ::	pos(duty)=	0.47075000	fitness(Output Power)=	121.88377447
Particle 2 ::	pos(duty)=	0.58420000	fitness(Output Power)=	171.22237974
Particle 3 ::	pos(duty)=	0.60250000	fitness(Output Power)=	177.40666055

Updated best Fitness Position = 0.62500000

Iteration No: 5

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1025
-0.1360
0.0022

Particle 1 ::	pos(duty)=	0.57330000	fitness(Output Power)=	166.71991743
Particle 2 ::	pos(duty)=	0.44818000	fitness(Output Power)=	113.42255545
Particle 3 ::	pos(duty)=	0.60475000	fitness(Output Power)=	177.96749201

Updated best Fitness Position = 0.60475000

Iteration No: 6

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.1080
0.0239
0.0020

```
Particle 1 :: pos(duty)= 0.68132000 fitness(Output Power)= 149.27919330
Particle 2 :: pos(duty)= 0.47205700 fitness(Output Power)= 122.19151446
Particle 3 :: pos(duty)= 0.60677500 fitness(Output Power)= 178.42674045
```

Updated best Fitness Position = 0.60677500

Iteration No: 7

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0059

0.0888

0.0018

```
Particle 1 :: pos(duty)= 0.68725550 fitness(Output Power)= 144.16661272
Particle 2 :: pos(duty)= 0.56090530 fitness(Output Power)= 161.17873608
Particle 3 :: pos(duty)= 0.60859750 fitness(Output Power)= 178.82705206
```

Updated best Fitness Position = 0.60859750

Iteration No: 8

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0910

0.1038

0.0016

```
Particle 1 :: pos(duty)= 0.59629070 fitness(Output Power)= 175.58771581
Particle 2 :: pos(duty)= 0.66471487 fitness(Output Power)= 162.82556623
Particle 3 :: pos(duty)= 0.61023775 fitness(Output Power)= 179.12541508
```

Updated best Fitness Position = 0.61023775

Iteration No: 9

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0749

0.0662

0.0015

```
Particle 1 :: pos(duty)= 0.52139590 fitness(Output Power)= 143.05486866
Particle 2 :: pos(duty)= 0.73090492 fitness(Output Power)= 107.43212610
Particle 3 :: pos(duty)= 0.61171397 fitness(Output Power)= 179.36415841
```

Updated best Fitness Position = 0.61171397

Iteration No: 10

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0152

-0.0331

0.0013

Particle 1 :: pos(duty)= 0.53659702 fitness(Output Power)= 149.95425172

Particle 2 :: pos(duty)= 0.69778547 fitness(Output Power)= 135.04117196

Particle 3 :: pos(duty)= 0.61304258 fitness(Output Power)= 179.57095519

Updated best Fitness Position = 0.61304258

Iteration No: 11

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0519

-0.0722

0.0012

Particle 1 :: pos(duty)= 0.58850081 fitness(Output Power)= 172.90495365

Particle 2 :: pos(duty)= 0.62560652 fitness(Output Power)= 180.10256456

Particle 3 :: pos(duty)= 0.61423832 fitness(Output Power)= 179.73225045

Updated best Fitness Position = 0.62560652

Iteration No: 12

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0653

-0.0650

0.0068

Particle 1 :: pos(duty)= 0.65376707 fitness(Output Power)= 170.36923275

Particle 2 :: pos(duty)= 0.56064546 fitness(Output Power)= 161.04340513

Particle 3 :: pos(duty)= 0.62099859 fitness(Output Power)= 180.21197174

Updated best Fitness Position = 0.62099859

Iteration No: 13

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0097

0.0042

0.0061

Particle 1 :: pos(duty)= 0.66348933 fitness(Output Power)= 163.76302040

Particle 2 :: pos(duty)= 0.56483760 fitness(Output Power)= 163.00444361

Particle 3 :: pos(duty)= 0.62708283 fitness(Output Power)= 179.98674573

Updated best Fitness Position = 0.62099859

Iteration No: 14

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0500

0.0319

-0.0006

Particle 1 :: pos(duty)= 0.61349973 fitness(Output Power)= 179.63847150

Particle 2 :: pos(duty)= 0.59669102 fitness(Output Power)= 175.69446321

Particle 3 :: pos(duty)= 0.62647440 fitness(Output Power)= 180.04542962

Updated best Fitness Position = 0.62647440

Iteration No: 15

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0385

0.0436

-0.0005

Particle 1 :: pos(duty)= 0.57499643 fitness(Output Power)= 167.45291661

Particle 2 :: pos(duty)= 0.64025079 fitness(Output Power)= 177.02709809

Particle 3 :: pos(duty)= 0.62592682 fitness(Output Power)= 180.08239806

Updated best Fitness Position = 0.62592682

Iteration No: 16

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0101
0.0320
-0.0005

Particle 1 ::	pos(duty)=	0.58506030	fitness(Output Power)=	171.62452877
Particle 2 ::	pos(duty)=	0.67229260	fitness(Output Power)=	156.85385458
Particle 3 ::	pos(duty)=	0.62543400	fitness(Output Power)=	180.11515958

Updated best Fitness Position = 0.62543400

Iteration No: 17

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0292
-0.0106
-0.0004

Particle 1 ::	pos(duty)=	0.61430464	fitness(Output Power)=	179.73225045
Particle 2 ::	pos(duty)=	0.66168002	fitness(Output Power)=	165.05625018
Particle 3 ::	pos(duty)=	0.62499046	fitness(Output Power)=	180.14363943

Updated best Fitness Position = 0.62499046

Iteration No: 18

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0317
-0.0279
-0.0004

Particle 1 ::	pos(duty)=	0.64596745	fitness(Output Power)=	174.64812846
Particle 2 ::	pos(duty)=	0.63378392	fitness(Output Power)=	178.91859379
Particle 3 ::	pos(duty)=	0.62459127	fitness(Output Power)=	180.16328945

Updated best Fitness Position = 0.62459127

Iteration No: 19

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0020
-0.0297
-0.0004

```
Particle 1 :: pos(duty)= 0.64794448 fitness(Output Power)= 173.66056932
Particle 2 :: pos(duty)= 0.60408110 fitness(Output Power)= 177.82504101
Particle 3 :: pos(duty)= 0.62423200 fitness(Output Power)= 180.17617297
```

```
Updated best Fitness Position = 0.62423200
```

```
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```

```
Iteration No: 20
```

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

```
velocity =
```

```
-0.0269
```

```
-0.0018
```

```
-0.0003
```

```
Particle 1 :: pos(duty)= 0.62104765 fitness(Output Power)= 180.21197174
Particle 2 :: pos(duty)= 0.60227542 fitness(Output Power)= 177.32630921
Particle 3 :: pos(duty)= 0.62390866 fitness(Output Power)= 180.18744860
```

```
Updated best Fitness Position = 0.62104765
```

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```

```
Initial Parameters...
```

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

```
r = 1.00
```

```
w = 0.90
```

```
-----
INITIAL Particle 1 :: pos(duty)= 0.62104765 fitness(Output Power)= 131.56055018
INITIAL Particle 2 :: pos(duty)= 0.60227542 fitness(Output Power)= 138.66079171
INITIAL Particle 3 :: pos(duty)= 0.62390866 fitness(Output Power)= 130.17817076
```

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

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

```
Iteration No: 1
```

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

```
velocity =
```

```
-0.0242
```

```
0.0235
```

```
-0.0017
```

```
Particle 1 :: pos(duty)= 0.59684050 fitness(Output Power)= 139.92928285
Particle 2 :: pos(duty)= 0.62579067 fitness(Output Power)= 129.23321016
Particle 3 :: pos(duty)= 0.62218715 fitness(Output Power)= 131.03414504
```

Updated best Fitness Position = 0.59684050

Iteration No: 2

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0218

0.0107

-0.0142

Particle 1 :: pos(duty)= 0.57505407 fitness(Output Power)= 141.27016398

Particle 2 :: pos(duty)= 0.63647594 fitness(Output Power)= 123.37751128

Particle 3 :: pos(duty)= 0.60796446 fitness(Output Power)= 136.95687079

Updated best Fitness Position = 0.57505407

Iteration No: 3

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0196

-0.0224

-0.0293

Particle 1 :: pos(duty)= 0.55544628 fitness(Output Power)= 138.53436608

Particle 2 :: pos(duty)= 0.61403573 fitness(Output Power)= 134.68289252

Particle 3 :: pos(duty)= 0.57870885 fitness(Output Power)= 141.42168080

Updated best Fitness Position = 0.57870885

Iteration No: 4

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0038

-0.0379

-0.0263

Particle 1 :: pos(duty)= 0.55923445 fitness(Output Power)= 139.28485841

Particle 2 :: pos(duty)= 0.57617611 fitness(Output Power)= 141.33284056

Particle 3 :: pos(duty)= 0.55237880 fitness(Output Power)= 137.86040962

Updated best Fitness Position = 0.57870885

Iteration No: 5

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0131
-0.0328
0.0026

Particle 1 ::	pos(duty)=	0.57238101	fitness(Output Power)=	141.07745595
Particle 2 ::	pos(duty)=	0.54336882	fitness(Output Power)=	135.69627529
Particle 3 ::	pos(duty)=	0.55501181	fitness(Output Power)=	138.45945182

Updated best Fitness Position = 0.57617611

Iteration No: 6

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0137
0.0033
0.0130

Particle 1 ::	pos(duty)=	0.58611045	fitness(Output Power)=	141.28606406
Particle 2 ::	pos(duty)=	0.54664955	fitness(Output Power)=	136.50580921
Particle 3 ::	pos(duty)=	0.56796366	fitness(Output Power)=	140.62243255

Updated best Fitness Position = 0.58611045

Iteration No: 7

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0124
0.0227
0.0207

Particle 1 ::	pos(duty)=	0.59846696	fitness(Output Power)=	139.58678922
Particle 2 ::	pos(duty)=	0.56933266	fitness(Output Power)=	140.77509391
Particle 3 ::	pos(duty)=	0.58869373	fitness(Output Power)=	141.08987283

Updated best Fitness Position = 0.58611045

Iteration No: 8

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0012
0.0288
0.0174

Particle 1 ::	pos(duty)=	0.59723131	fitness(Output Power)=	139.85563261
Particle 2 ::	pos(duty)=	0.59813635	fitness(Output Power)=	139.66532958
Particle 3 ::	pos(duty)=	0.60605915	fitness(Output Power)=	137.57409058

Updated best Fitness Position = 0.58869373

Iteration No: 9

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0054
0.0068
-0.0017

Particle 1 ::	pos(duty)=	0.59185043	fitness(Output Power)=	140.73458614
Particle 2 ::	pos(duty)=	0.60493652	fitness(Output Power)=	137.90856932
Particle 3 ::	pos(duty)=	0.60432261	fitness(Output Power)=	138.10896481

Updated best Fitness Position = 0.59185043

Iteration No: 10

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0048
-0.0182
-0.0078

Particle 1 ::	pos(duty)=	0.58700764	fitness(Output Power)=	141.22874434
Particle 2 ::	pos(duty)=	0.58671169	fitness(Output Power)=	141.25120705
Particle 3 ::	pos(duty)=	0.59652363	fitness(Output Power)=	139.98357521

Updated best Fitness Position = 0.58671169

Iteration No: 11

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0045
-0.0164

-0.0119

Particle 1 ::	pos(duty)=	0.58250116	fitness(Output Power)=	141.42904741
Particle 2 ::	pos(duty)=	0.57030935	fitness(Output Power)=	140.88199780
Particle 3 ::	pos(duty)=	0.58459858	fitness(Output Power)=	141.36605019

Updated best Fitness Position = 0.58250116

Iteration No: 12

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0041

-0.0005

-0.0118

Particle 1 ::	pos(duty)=	0.57844532	fitness(Output Power)=	141.41582962
Particle 2 ::	pos(duty)=	0.56984432	fitness(Output Power)=	140.83743039
Particle 3 ::	pos(duty)=	0.57281733	fitness(Output Power)=	141.11120503

Updated best Fitness Position = 0.58250116

Iteration No: 13

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0004

0.0143

0.0001

Particle 1 ::	pos(duty)=	0.57885091	fitness(Output Power)=	141.42435983
Particle 2 ::	pos(duty)=	0.58418790	fitness(Output Power)=	141.38400521
Particle 3 ::	pos(duty)=	0.57294674	fitness(Output Power)=	141.12206773

Updated best Fitness Position = 0.57885091

Iteration No: 14

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0004

0.0102

0.0031

Particle 1 ::	pos(duty)=	0.57921593	fitness(Output Power)=	141.43141765
Particle 2 ::	pos(duty)=	0.59442862	fitness(Output Power)=	140.35609641

Particle 3 :: pos(duty)= 0.57601529 fitness(Output Power)= 141.32658945

Updated best Fitness Position = 0.57921593

Iteration No: 15

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0003

-0.0035

0.0044

Particle 1 :: pos(duty)= 0.57954445 fitness(Output Power)= 141.43701855

Particle 2 :: pos(duty)= 0.59091857 fitness(Output Power)= 140.86108918

Particle 3 :: pos(duty)= 0.58037731 fitness(Output Power)= 141.44450725

Updated best Fitness Position = 0.58037731

Iteration No: 16

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0007

-0.0084

0.0039

Particle 1 :: pos(duty)= 0.58025655 fitness(Output Power)= 141.44391069

Particle 2 :: pos(duty)= 0.58248889 fitness(Output Power)= 141.42904741

Particle 3 :: pos(duty)= 0.58430312 fitness(Output Power)= 141.37972465

Updated best Fitness Position = 0.58037731

Iteration No: 17

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0007

-0.0086

-0.0004

Particle 1 :: pos(duty)= 0.58095782 fitness(Output Power)= 141.44533622

Particle 2 :: pos(duty)= 0.57384639 fitness(Output Power)= 141.19275826

Particle 3 :: pos(duty)= 0.58391054 fitness(Output Power)= 141.39214702

Updated best Fitness Position = 0.58095782

Iteration No: 18

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0006

0.0001

-0.0018

Particle 1 :: pos(duty)= 0.58158896 fitness(Output Power)= 141.44196775

Particle 2 :: pos(duty)= 0.57394511 fitness(Output Power)= 141.20210087

Particle 3 :: pos(duty)= 0.58208086 fitness(Output Power)= 141.43669763

Updated best Fitness Position = 0.58095782

Iteration No: 19

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0001

0.0036

-0.0022

Particle 1 :: pos(duty)= 0.58152585 fitness(Output Power)= 141.44290944

Particle 2 :: pos(duty)= 0.57754031 fitness(Output Power)= 141.38576456

Particle 3 :: pos(duty)= 0.57987262 fitness(Output Power)= 141.43995065

Updated best Fitness Position = 0.58152585

Iteration No: 20

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0001

0.0052

-0.0012

Particle 1 :: pos(duty)= 0.58146905 fitness(Output Power)= 141.44290944

Particle 2 :: pos(duty)= 0.58276876 fitness(Output Power)= 141.42434020

Particle 3 :: pos(duty)= 0.57871182 fitness(Output Power)= 141.42168080

Updated best Fitness Position = 0.58146905

Initial Parameters...

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

```
-----
INITIAL Particle 1 :: pos(duty)= 0.58146905 fitness(Output Power)= 91.59413555
INITIAL Particle 2 :: pos(duty)= 0.58276876 fitness(Output Power)= 91.12814002
INITIAL Particle 3 :: pos(duty)= 0.57871182 fitness(Output Power)= 92.57286539
```

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

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

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

```
-0.0001
0.0041
0.0009
```

```
Particle 1 :: pos(duty)= 0.58141792 fitness(Output Power)= 91.62314966
Particle 2 :: pos(duty)= 0.58682451 fitness(Output Power)= 89.65205745
Particle 3 :: pos(duty)= 0.57962611 fitness(Output Power)= 92.25801128
```

```
Updated best Fitness Position = 0.57987262
```

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

```
-0.0008
-0.0019
0.0011
```

```
Particle 1 :: pos(duty)= 0.58059926 fitness(Output Power)= 91.91255179
Particle 2 :: pos(duty)= 0.58497087 fitness(Output Power)= 90.33460158
Particle 3 :: pos(duty)= 0.58069549 fitness(Output Power)= 91.88367276
```

```
Updated best Fitness Position = 0.57987262
```

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

```
-0.0011
```

-0.0042
0.0001

Particle 1 ::	pos(duty)=	0.57949915	fitness(Output Power)=	92.28670732
Particle 2 ::	pos(duty)=	0.58075347	fitness(Output Power)=	91.85478001
Particle 3 ::	pos(duty)=	0.58083506	fitness(Output Power)=	91.82587359

Updated best Fitness Position = 0.57949915

Iteration No: 4
c1 = 0.50000000 c2 = 0.50000000
velocity =

-0.0010
-0.0044
-0.0010

Particle 1 ::	pos(duty)=	0.57850905	fitness(Output Power)=	92.62991924
Particle 2 ::	pos(duty)=	0.57633065	fitness(Output Power)=	93.39406951
Particle 3 ::	pos(duty)=	0.57981150	fitness(Output Power)=	92.17183711

Updated best Fitness Position = 0.57633065

Iteration No: 5
c1 = 0.50000000 c2 = 0.50000000
velocity =

-0.0020
-0.0040
-0.0027

Particle 1 ::	pos(duty)=	0.57652876	fitness(Output Power)=	93.30974021
Particle 2 ::	pos(duty)=	0.57235011	fitness(Output Power)=	94.72190346
Particle 3 ::	pos(duty)=	0.57714987	fitness(Output Power)=	93.11240025

Updated best Fitness Position = 0.57235011

Iteration No: 6
c1 = 0.50000000 c2 = 0.50000000
velocity =

-0.0039
-0.0036
-0.0048

Particle 1 ::	pos(duty)=	0.57265717	fitness(Output Power)=	94.61287999
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```
Particle 2 :: pos(duty)= 0.56876763 fitness(Output Power)= 95.84674713
Particle 3 :: pos(duty)= 0.57235453 fitness(Output Power)= 94.72190346
```

```
Updated best Fitness Position = 0.56876763
```

```
-----
```

```
Iteration No: 7
```

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

```
velocity =
```

```
-0.0054
-0.0032
-0.0061
```

```
Particle 1 :: pos(duty)= 0.56722797 fitness(Output Power)= 96.31681553
Particle 2 :: pos(duty)= 0.56554339 fitness(Output Power)= 96.80442032
Particle 3 :: pos(duty)= 0.56624527 fitness(Output Power)= 96.60022416
```

```
Updated best Fitness Position = 0.56554339
```

```
-----
```

```
Iteration No: 8
```

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

```
velocity =
```

```
-0.0057
-0.0029
-0.0058
```

```
Particle 1 :: pos(duty)= 0.56149941 fitness(Output Power)= 97.96874781
Particle 2 :: pos(duty)= 0.56264158 fitness(Output Power)= 97.65304609
Particle 3 :: pos(duty)= 0.56039600 fitness(Output Power)= 98.25554758
```

```
Updated best Fitness Position = 0.56039600
```

```
-----
```

```
Iteration No: 9
```

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

```
velocity =
```

```
-0.0057
-0.0037
-0.0053
```

```
Particle 1 :: pos(duty)= 0.55579199 fitness(Output Power)= 99.39835386
Particle 2 :: pos(duty)= 0.55890716 fitness(Output Power)= 98.63070891
Particle 3 :: pos(duty)= 0.55513165 fitness(Output Power)= 99.55105843
```


Updated best Fitness Position = 0.55513165

Iteration No: 10

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0055

-0.0052

-0.0047

Particle 1 :: pos(duty)= 0.55032515 fitness(Output Power)= 100.60222267

Particle 2 :: pos(duty)= 0.55365842 fitness(Output Power)= 99.89277540

Particle 3 :: pos(duty)= 0.55039374 fitness(Output Power)= 100.58272158

Updated best Fitness Position = 0.55032515

Iteration No: 11

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0049

-0.0064

-0.0043

Particle 1 :: pos(duty)= 0.54540499 fitness(Output Power)= 101.49656790

Particle 2 :: pos(duty)= 0.54726792 fitness(Output Power)= 101.18250719

Particle 3 :: pos(duty)= 0.54609532 fitness(Output Power)= 101.37653091

Updated best Fitness Position = 0.54540499

Iteration No: 12

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0044

-0.0067

-0.0042

Particle 1 :: pos(duty)= 0.54097684 fitness(Output Power)= 102.15656932

Particle 2 :: pos(duty)= 0.54058500 fitness(Output Power)= 102.21369536

Particle 3 :: pos(duty)= 0.54188158 fitness(Output Power)= 102.03920662

Updated best Fitness Position = 0.54058500

Iteration No: 13

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0042

-0.0060

-0.0044

Particle 1 :: pos(duty)= 0.53679560 fitness(Output Power)= 102.65505097

Particle 2 :: pos(duty)= 0.53457038 fitness(Output Power)= 102.87508316

Particle 3 :: pos(duty)= 0.53744092 fitness(Output Power)= 102.58313449

Updated best Fitness Position = 0.53457038

Iteration No: 14

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0049

-0.0054

-0.0054

Particle 1 :: pos(duty)= 0.53191986 fitness(Output Power)= 103.08008626

Particle 2 :: pos(duty)= 0.52915721 fitness(Output Power)= 103.24962286

Particle 3 :: pos(duty)= 0.53200906 fitness(Output Power)= 103.07165096

Updated best Fitness Position = 0.52915721

Iteration No: 15

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0058

-0.0049

-0.0063

Particle 1 :: pos(duty)= 0.52615038 fitness(Output Power)= 103.36956200

Particle 2 :: pos(duty)= 0.52428537 fitness(Output Power)= 103.41651331

Particle 3 :: pos(duty)= 0.52569446 fitness(Output Power)= 103.38505295

Updated best Fitness Position = 0.52428537

Iteration No: 16

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0061
-0.0044
-0.0064

Particle 1 ::	pos(duty)=	0.52002534	fitness(Output Power)=	103.44445001
Particle 2 ::	pos(duty)=	0.51990070	fitness(Output Power)=	103.44351064
Particle 3 ::	pos(duty)=	0.51930677	fitness(Output Power)=	103.43855345

Updated best Fitness Position = 0.52002534

Iteration No: 17

c1 = 0.50000000 c2 = 0.50000000

velocity =

-0.0055
-0.0039
-0.0054

Particle 1 ::	pos(duty)=	0.51451280	fitness(Output Power)=	103.32103682
Particle 2 ::	pos(duty)=	0.51601682	fitness(Output Power)=	103.37154423
Particle 3 ::	pos(duty)=	0.51391714	fitness(Output Power)=	103.29704664

Updated best Fitness Position = 0.52002534

Iteration No: 18

c1 = 0.50000000 c2 = 0.50000000

velocity =

1.0e-03 *

0.5513
0.4507
0.8982

Particle 1 ::	pos(duty)=	0.51506405	fitness(Output Power)=	103.34284764
Particle 2 ::	pos(duty)=	0.51646753	fitness(Output Power)=	103.38411112
Particle 3 ::	pos(duty)=	0.51481538	fitness(Output Power)=	103.33221273

Updated best Fitness Position = 0.51646753

Iteration No: 19

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0012
0.0004

0.0016

Particle 1 ::	pos(duty)=	0.51626192	fitness(Output Power)=	103.38005287
Particle 2 ::	pos(duty)=	0.51687316	fitness(Output Power)=	103.39550705
Particle 3 ::	pos(duty)=	0.51644988	fitness(Output Power)=	103.38411112

Updated best Fitness Position = 0.51687316

Iteration No: 20

c1 = 0.50000000 c2 = 0.50000000

velocity =

0.0014

0.0004

0.0017

Particle 1 ::	pos(duty)=	0.51764562	fitness(Output Power)=	103.41193154
Particle 2 ::	pos(duty)=	0.51723823	fitness(Output Power)=	103.40245989
Particle 3 ::	pos(duty)=	0.51813257	fitness(Output Power)=	103.42026480

Updated best Fitness Position = 0.51813257

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