

## SMPS White Paper

Date : 15-06-2023

We felt a need to have BIS & CE Marking for all Power supplies and make available “Universal Input” supply models also. In G31 series only two varieties 60W and 120W were CE & BIS marked. Others were not. Also, universal input supply models were not available & G32 series was offered for 110VAC/DC inputs.

We are pleased to announce our fourth generation series SMPS, order code starting with G4x. Within next few weeks G31 series will be phased out & G41 series will be supplied against pending & future orders.

There is no significant difference between the two series in respect of general aesthetics, dimensions & technical specifications.

Below is the Summary.

### New Offerings :

| Order Code | Input range                                       | Wattage                             |
|------------|---------------------------------------------------|-------------------------------------|
| G41-xx-xx  | AC : 185V to 270V, 47- 63 Hz<br>DC : 200V to 360V | 24W, 60W, 120W, 250W,<br>360W, 500W |
| G42-xx-xx  | AC : 90V to 130V, 47- 63 Hz<br>DC : 100V to 160V  | 250W only                           |
| G48-xx-xx  | AC : 100V to 270V, 47- 63 Hz<br>DC : 110V to 360V | 6W, 24W, 60W, 120W only             |

| Requirement                 | What is manufactured                        |
|-----------------------------|---------------------------------------------|
| Input : 230VAC              | G41-xx-xx and G48-xx-xx                     |
| Input : 110VAC              | Upto 120W : G48-xx-xx, For 250W : G42-xx-xx |
| Input : 100VAC to 270VAC    | Upto 120W : G48-xx-xx                       |
| Input : 230VAC, Dual Output | G31-70-xx-xx                                |
| Input : 110VAC, Dual Output | G32-70-xx-xx                                |
| Input : 18VDC to 36VDC      | G34-xx-xx                                   |
| Input : 38VDC to 60VDC      | G35-xx-xx                                   |

Note : 70W (Dual o/p), G34 & G35 (DC to DC) will be offered in G3 series only.

### Itemwise Summary :

| Series/<br>Wattage | Customer<br>Requirement | What is manufactured   | Approvals                                                                                                                                                                                                                                                |
|--------------------|-------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6W                 | G38-06-05               | G48-06-05              |  <br>IS 13252(Part 1):2010<br>IEC 60950-1:2005<br>R-71016276<br>www.bis.gov.in |
|                    | G38-06-12               | G48-06-12              |                                                                                                                                                                                                                                                          |
|                    | G38-06-15               | G48-06-15              |                                                                                                                                                                                                                                                          |
|                    | G38-06-24               | G48-06-24              |                                                                                                                                                                                                                                                          |
| 24W                | G31-24-05               | G48-24-05              |  <br>IS 13252(Part 1):2010<br>IEC 60950-1:2005<br>R-71016276<br>www.bis.gov.in |
|                    | G31-24-12               | G41-24-12<br>G48-24-12 |                                                                                                                                                                                                                                                          |
|                    | G31-24-15               | G48-24-15              |                                                                                                                                                                                                                                                          |
|                    | G31-24-24               | G41-24-24<br>G48-24-24 |                                                                                                                                                                                                                                                          |
|                    | G31-24-48               | G48-24-48              |                                                                                                                                                                                                                                                          |
|                    | G32-24-05               | G48-24-05              |                                                                                                                                                                                                                                                          |
|                    | G32-24-12               | G48-24-12              |                                                                                                                                                                                                                                                          |
|                    | G32-24-15               | G48-24-15              |                                                                                                                                                                                                                                                          |
|                    | G32-24-24               | G48-24-24              |                                                                                                                                                                                                                                                          |
|                    | G32-24-48               | G48-24-48              |                                                                                                                                                                                                                                                          |



| Series/<br>Wattage   | Customer<br>Requirement | What is manufactured                                               | Approvals                                                                                                                                                                                                                                                                |
|----------------------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 60W                  | G31-60-05               | G48-60-05<br>if required Qty is > 250 Nos. please contact factory  |  <br>IS 13252(Part 1):2010<br>IEC 60950-1:2005<br>R-71016276<br>www.bis.gov.in                     |
|                      | G31-60-12               | G41-60-12<br>G48-60-12                                             |                                                                                                                                                                                                                                                                          |
|                      | G31-60-15               | G48-60-15<br>if required Qty is > 250 Nos. please contact factory  |                                                                                                                                                                                                                                                                          |
|                      | G31-60-24               | G41-60-24<br>G48-60-24                                             |                                                                                                                                                                                                                                                                          |
|                      | G31-60-48               | G48-60-48<br>if required Qty is > 250 Nos. please contact factory  |                                                                                                                                                                                                                                                                          |
|                      | G32-60-05               | G48-60-05                                                          |                                                                                                                                                                                                                                                                          |
|                      | G32-60-12               | G48-60-12                                                          |                                                                                                                                                                                                                                                                          |
|                      | G32-60-15               | G48-60-15                                                          |                                                                                                                                                                                                                                                                          |
|                      | G32-60-24               | G48-60-24                                                          |                                                                                                                                                                                                                                                                          |
|                      | G32-60-48               | G48-60-48                                                          |                                                                                                                                                                                                                                                                          |
| 120W                 | G31-120-12              | G41-120-12<br>G48-120-12                                           |  <br>IS 13252(Part 1):2010<br>IEC 60950-1:2005<br>R-71016276<br>www.bis.gov.in                     |
|                      | G31-120-15              | G48-120-15<br>if required Qty is > 250 Nos. please contact factory |                                                                                                                                                                                                                                                                          |
|                      | G31-120-24              | G41-120-24<br>G48-120-24                                           |                                                                                                                                                                                                                                                                          |
|                      | G31-120-48              | G48-120-48<br>if required Qty is > 250 Nos. please contact factory |                                                                                                                                                                                                                                                                          |
|                      | G32-120-12              | G48-120-12                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-120-15              | G48-120-15                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-120-24              | G48-120-24                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-120-48              | G48-120-48                                                         |                                                                                                                                                                                                                                                                          |
| 250W                 | G31-250-12              | G41-250-12                                                         |  <br>IS 13252(Part 1):2010<br>IEC 60950-1:2005<br>R-71016276<br>www.bis.gov.in                 |
|                      | G31-250-15              | G41-250-15                                                         |                                                                                                                                                                                                                                                                          |
|                      | G31-250-24              | G41-250-24                                                         |                                                                                                                                                                                                                                                                          |
|                      | G31-250-30              | G41-250-30                                                         |                                                                                                                                                                                                                                                                          |
|                      | G31-250-36              | G41-250-36                                                         |                                                                                                                                                                                                                                                                          |
|                      | G31-250-48              | G41-250-48                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-250-12              | G42-250-12                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-250-15              | G42-250-15                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-250-24              | G42-250-24                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-250-30              | G42-250-30                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-250-36              | G42-250-36                                                         |                                                                                                                                                                                                                                                                          |
|                      | G32-250-48              | G42-250-48                                                         |                                                                                                                                                                                                                                                                          |
| 360W                 | G31-360-12              | G41-360-12                                                         |  <br>IS 13252(Part 1):2010<br>IEC 60950-1:2005<br>R-71016276<br>www.bis.gov.in<br>(In Process) |
|                      | G31-360-24              | G41-360-24                                                         |                                                                                                                                                                                                                                                                          |
|                      | G31-360-36              | G41-360-36                                                         |                                                                                                                                                                                                                                                                          |
| 500W                 | G31-500-24              | G41-500-24                                                         |                                                                                                                                                                                                                                                                          |
|                      | G31-500-48              | G41-500-48                                                         |                                                                                                                                                                                                                                                                          |
| Black Series<br>60W  | BL1250                  | BL1250                                                             | <br>IS 13252(Part 1):2010<br>IEC 60950-1:2005<br>R-71016276<br>www.bis.gov.in                                                                                                       |
|                      | BL2425                  | BL2425                                                             |                                                                                                                                                                                                                                                                          |
| Black Series<br>120W | BL2450                  | BL2450                                                             | <br>R-71016276<br>www.bis.gov.in                                                                                                                                                    |

