

## Product Datasheet - Technical Specifications



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**Meilhaus Electronic GmbH** | Tel. **+49 - 81 41 - 52 71-0**  
Am Sonnenlicht 2 | Fax **+49 - 81 41 - 52 71-129**  
82239 Alling/Germany | E-Mail [sales@meilhaus.com](mailto:sales@meilhaus.com)

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# Technical Specifications

| Parameter                               |   | IT8615                 | V1.4 |
|---|---|------------------------|------|
| <b>AC Section</b>                       |   |                        |      |
| Input parameter                         | Input voltage                           | 50-420Vrms , 600V peak |      |
|   | Current                                 | 0-20Arms ,60Apeak      |      |
|   | Power                                   | 0-1800VA               |      |
|   | Frequency                               | 45-450Hz               |      |
| CC mode<br><i>*1</i>                    | Range                                   | 0.1-20Arms             |      |
|   | Resolution                              | 2mA                    |      |
|   | Accuracy                                | ±(0.1%+0.2%FS)         |      |
| CR mode<br><i>*2</i>                    | Range                                   | 3Ω~2.5KΩ               |      |
|   | Resolution                              | 16bit                  |      |
|   | Accuracy                                | 0.2% +0.01S            |      |
| CP mode                                 | Range                                   | 1800W                  |      |
|   | Resolution                              | 0.4W                   |      |
|   | Accuracy                                | 0.5%+0.5%FS            |      |
| Crest Factor(CF)<br>(in CP and CC mode) | Range                                   | 1.414-5.0              |      |
|   | Resolution                              | 0.005                  |      |
|   | Accuracy                                | (0.5% / Irms) + 1% FS  |      |
| Power Factor<br>(PF)                    | Range                                   | 0-1 lead or lag        |      |
|   | Resolution                              | 0.001                  |      |
| <b>DC Section</b>                       |   |                        |      |
| Input parameter                         | Input voltage                           | 10V-600V               |      |
|   | Input current                           | 0.1A-20A               |      |
|   | Input power                             | 0-1800VA               |      |
| Operating Mode                          | CC, CV, CR and CP                       |                        |      |
| Short Circuit Simulation                | The maximum power or current in CC mode |                        |      |
| <b>Meter</b>                            |   |                        |      |
| Current<br><i>*1</i>                    | Range                                   | 0-60A                  |      |
|   | Resolution                              | 1mA                    |      |

| Parameter               |   | IT8615                    | V1.4 |
|-------------------------|---|---------------------------|------|
|                         | Accuracy  | 0.1%+0.2%FS+0.1%*CF^2*KHZ |      |
| Voltage<br>*1           | Range   | 0-600V                    |      |
|                         | Resolution  | 10mV                      |      |
|                         | Accuracy  | 0.1%+0.1%FS               |      |
| <b>Meter (continue)</b> |   |                           |      |
| Other Parameters        | S(VA), Q(VAR), P(W), Ip+, Ip-, Freq, THDv, CF, PF, R, FFT |                           |      |
| <b>Other</b>            |   |                           |      |
| Vmonitor                | ±600V/±10V(Isolation)                                     |                           |      |
| Imonitor                | ±60A/±10V(Isolation)                                      |                           |      |
| Protection              | OCP: 21Arms,OVP: 430Vrms,OPP: 1900W,OTP: 85℃              |                           |      |
| Interface               | GPIB, USB, LAN  |                           |      |
| Dimension(WxHxD)        | 482.5 mm x 133mm x 600.6mm                                |                           |      |
| Weight                  | 25Kg  |                           |      |
| Power Supply Input      | Voltage   | 100-240V AC               |      |
|                         | Frequency   | 47-63 Hz                  |      |
|                         | Fuse  | 3.15A                     |      |
|                         | Power   | 150VA                     |      |

\*1. Typical parameter values in case of the 45-100HZ.

\*2. The scope of read-back resistance is (  $1/(1/R+(1/R)*0.2\%+0.01)$ ,  $1/(1/R-(1/R)*0.2\%-0.01)$  )

Test condition: The voltage/current input is no less than 10% FS

\*3. Operating temperature: 0-40℃ , temperature coefficient: 100ppm/℃

| Parameter         |               | IT8615L                | V1.1 |
|-------------------|---------------|------------------------|------|
| <b>AC Section</b> |               |                        |      |
| Input parameter   | Input voltage | 15~260Vrms , 360V peak |      |
|                   | Current       | 0~20Arms ,60Apeak      |      |
|                   | Power         | 0~1800VA               |      |
|                   | Frequency     | 45~450Hz               |      |
| CC mode<br>*1     | Range         | 0.1~20Arms             |      |
|                   | Resolution    | 2mA                    |      |
|                   | Accuracy      | ±(0.1%+0.2%FS)         |      |
| CR mode<br>*2     | Range         | 3Ω~2.5KΩ               |      |
|                   | Resolution    | 16bit                  |      |

| Parameter                               |   | IT8615L                   | V1.1 |
|---|---|---------------------------|------|
|   | Accuracy  | 0.2% +0.01S               |      |
| CP mode                                 | Range   | 1800W                     |      |
|   | Resolution                                      | 0.4W                      |      |
|   | Accuracy  | 0.5%+0.5%FS               |      |
| Crest Factor(CF)<br>(in CP and CC mode) | Range   | 1.414~5.0                 |      |
|   | Resolution                                      | 0.005                     |      |
|   | Accuracy  | (0.5% / Irms) + 1% FS     |      |
| Power Factor<br>(PF)                    | Range   | 0-1 lead or lag           |      |
|   | Resolution                                      | 0.001                     |      |
| <b>DC Section</b>                       |   |                           |      |
| Input parameter                         | Input voltage                                   | 10~ 360                   |      |
|   | Input current                                   | 0.1~20A                   |      |
|   | Input power                                     | 0~1800 VA                 |      |
| Operating Mode                          | CC, CV, CR and CP                               |                           |      |
| Short Circuit Simulation                | The maximum power or current in CC mode         |                           |      |
| <b>Meter</b>                            |   |                           |      |
| Current<br>*1                           | Range   | 0~60A                     |      |
|   | Resolution                                      | 1mA                       |      |
|   | Accuracy  | 0.1%+0.2%FS+0.1%*CF^2*KHZ |      |
| Voltage<br>*1                           | Range   | 0~360V                    |      |
|   | Resolution                                      | 10mV                      |      |
|   | Accuracy  | 0.1%+0.1%FS               |      |
| <b>Meter (continue)</b>                 |   |                           |      |
| Other Parameters                        | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT |                           |      |
| <b>Other</b>                            |   |                           |      |
| V monitor                               | ±360v/±10V(Isolation)                           |                           |      |
| I monitor                               | ±60A/±10V(Isolation)                            |                           |      |
| Protection                              | OCP:21Arms,OVP:286Vrms,OPP:1900W,OTP:85°C       |                           |      |
| Interface                               | GPIB、USB、LAN                                    |                           |      |
| Dimension(WxHxD)                        | 482.5 mm x 133mm x 600.6mm                      |                           |      |

| Parameter          |           | IT8615L     | V1.1 |
|--------------------|-----------|-------------|------|
| Weight             | 25Kg      |             |      |
| Power Supply Input | Voltage   | 100~240V AC |      |
|                    | Frequency | 47~63 Hz    |      |
|                    | Fuse      | 3.15A       |      |
|                    | Power     | 150VA       |      |

\*1. Typical parameter values in case of the 45-100HZ.

\*2. The scope of read-back resistance is  $(1 / (1/R+(1/R)*0.2\%+0.01), 1/(1/R-(1/R)*0.2\%-0.01))$ .

Test condition: The voltage/current input is no less than 10% FS

The above specifications may be subject to change without prior notice.

| Parameter                               |               | IT8616                     | V1.3 |
|---|---------------|----------------------------|------|
| <b>AC Section</b>                       |               |                            |      |
| Input parameter                         | Input voltage | 50~420Vrms , 600V peak     |      |
|   | Current       | 0~40Arms , 120Apeak        |      |
|   | Power         | 0-3600W                    |      |
|   | Frequency     | 45~450Hz                   |      |
| CC mode<br>*1                           | Range         | 0.2~40Arms                 |      |
|   | Resolution    | 2mA                        |      |
|   | Accuracy      | $\pm(0.1\%+0.2\%FS)$       |      |
| CR mode<br>*2                           | Range         | 1.5Ω~1.25KΩ                |      |
|   | Resolution    | 16bit                      |      |
|   | Accuracy      | 0.2% +0.02S                |      |
| CP mode                                 | Range         | 3600W                      |      |
|   | Resolution    | 0.4W                       |      |
|   | Accuracy      | 0.5%+0.5%FS                |      |
| Crest Factor(CF)<br>(in CP and CC mode) | Range         | 1.414~5.0                  |      |
|   | Resolution    | 0.005                      |      |
|   | Accuracy      | $(1\% / I_{rms}) + 1\% FS$ |      |
| Power Factor<br>(PF)                    | Range         | 0~1 lead or lag            |      |
|   | Resolution    | 0.001                      |      |
| <b>DC Section</b>                       |               |                            |      |
| Input parameter                         | Input         | 10- 600V                   |      |

| Parameter                |  | IT8616                    | V1.3 |
|--------------------------|--|---------------------------|------|
|                          | voltage  |                           |      |
|                          | Input current  | 0.2~40A                   |      |
|                          | Input power  | 0-3600W                   |      |
| Operating Mode           | CC、CR、CP   |                           |      |
| Short Circuit Simulation | The maximum power or current in CC mode  |                           |      |
| <b>Meter</b>             |  |                           |      |
| Current                  | Range  | 0-120A                    |      |
|                          | Resolution   | 1mA                       |      |
|                          | Accuracy   | 0.2%+0.2%FS+0.2%*CF^2*KHZ |      |
| voltage                  | Range  | 0-600V                    |      |
|                          | Resolution   | 10mV                      |      |
|                          | Accuracy   | 0.1%+0.1%FS               |      |
| <b>Meter (continue)</b>  |  |                           |      |
| Other Parameters         | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT  |                           |      |
| <b>Other</b>             |  |                           |      |
| V monitor                | ±600v/±10V(Isolation)  |                           |      |
| I monitor                | ±120A/±10V(Isolation)  |                           |      |
| Protection               | OCP:42Arms,OVP:430Vrms,OPP:3700W,OTP:85°C  |                           |      |
| Interface                | GPIB、USB、LAN   |                           |      |
| Dimension                | side plate structure: 483.00mm(W) *348.99mm (H)*641.08mm (D)<br>cabinet: 50.0000 (W)*801.40 (H)*839.10mm (D) |                           |      |
| Weight                   | side plate structure: 68KG<br>cabinet: 120KG   |                           |      |
| Power Supply Input       | Voltage  | 100-240V AC               |      |
|                          | Frequency  | 47-63 Hz                  |      |
|                          | Power  | 300VA                     |      |

\*1. Typical parameter values in case of the 45-100HZ.

\*2. The scope of read-back resistance is (  $1/(1/R+(1/R)*0.2\%+0.01)$ ,  $1/(1/R-(1/R)*0.2\%-0.01)$  )  
Test condition: The voltage/current input is no less than 10% FS

\*3. Operating temperature: 0-40°C , temperature coefficient: 100ppm/°C

| Parameter         | IT8617 (AC/DC Load) |                       | V1.3 |
|-------------------|---------------------|-----------------------|------|
| <b>AC Section</b> |                     |                       |      |
| Parameter         | Input voltage       | 50~420Vrms, 600V peak |      |
|                   | Input current       | 0~60Arms, 180A peak   |      |
|                   | Input power         | 0-5400W               |      |

|                                  |  |                           |
|----------------------------------|--|---------------------------|
|                                  | Frequency  | 45~450Hz                  |
| CC mode *1                       | Range  | 0.3~60Arms                |
|                                  | Resolution   | 2mA                       |
|                                  | Accuracy   | ±(0.1%+0.2%FS)            |
| CR mode *2                       | Range  | 1Ω~833Ω                   |
|                                  | Resolution   | 16bit                     |
|                                  | Accuracy   | 0.2% +0.02S               |
| CP mode                          | Range  | 5400W                     |
|                                  | Resolution   | 0.4W                      |
|                                  | Accuracy   | 0.5%+0.5%FS               |
| Crest Factor(CF)<br>(CP,CC mode) | Range  | 1.414~5.0                 |
|                                  | Resolution   | 0.005                     |
|                                  | Accuracy   | (1.5% / Irms) + 1% FS     |
| Power Factor<br>(PF)             | Range  | 0~1 lead or lag           |
|                                  | Resolution   | 0.001                     |
| <b>DC Section</b>                |  |                           |
| Rating value                     | Input voltage  | 10~600V                   |
|                                  | Input current  | 0.3~60A                   |
|                                  | Input power  | 0-5400W                   |
| Working mode                     | CC,CP,CR   |                           |
| Short circuit simulation         | The max. power point or max. current in CC mode  |                           |
| Meter                            |  |                           |
| Current                          | Range  | 0-180A                    |
|                                  | Resolution   | 1mA                       |
|                                  | Accuracy   | 0.2%+0.2%FS+0.2%*CF^2*KHZ |
| Voltage                          | Range  | 0-600V                    |
|                                  | Resolution   | 10mV                      |
|                                  | Accuracy   | 0.1%+0.1%FS               |
| Meter(Continue)                  |  |                           |
| Other parameter                  | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT  |                           |
| Other                            |  |                           |
| Voltage Monitor                  | ±600v/±10V(Isolated)   |                           |
| Current Monitor                  | ±180A/±10V(Isolated)   |                           |
| Protection                       | OCP:63Arms,OVP:430Vrms,OPP:5500 W,OTP:85℃  |                           |
| Interface                        | GPIB、USB、LAN   |                           |
| Dimension                        | side plate structure: 483.00mm (W)*482.34mm(H)*641.08mm(D)<br>cabinet: 550.0000mm (W)*801.40(H)*807.5mm(D)         |                           |
| Weight                           | side plate structure: 98KG<br>cabinet: 145KG   |                           |
| AC Input                         | Voltage  | 100-240V AC               |
|                                  | Frequency  | 47-63Hz                   |
|                                  | Power  | 450VA                     |
| Parameter of each phase          | <b>IT8617 (AC/DC Load) V1.2</b>  |                           |
|                                  | <b>Three-Phase Mode</b>  |                           |
|                                  | <b>Delta or Star connection type are supported of IT8617.The connection depends on user's testing requirement.</b> |                           |
| <b>AC Section</b>                |  |                           |
| Parameter                        | Input voltage  | 50~420Vrms, 600V peak     |
|                                  | Input current  | 0~20Arms, 60A peak        |
|                                  | Input power  | 0-1800VA                  |
|                                  | Frequency  | 45~450Hz                  |

|  |            |                               |
|--|------------|-------------------------------|
| <b>CC mode</b>                           | Range      | 0.1~20Arms                    |
|  | Resolution | 2mA                           |
|  | Accuracy   | $\pm(0.1\%+0.2\%FS)$          |
| <b>CR mode *2</b>                        | Range      | 3 $\Omega$ ~2.5K $\Omega$     |
|  | Resolution | 16bit                         |
|  | Accuracy   | 0.2% +0.01S                   |
| <b>CP mode</b>                           | Range      | 1800W                         |
|  | Resolution | 0.4W                          |
|  | Accuracy   | 0.5%+0.5%FS                   |
| <b>Crest Factor(CF)<br/>(CP,CC mode)</b> | Range      | 1.414~5.0                     |
|  | Resolution | 0.005                         |
|  | Accuracy   | $(0.5\%* / I_{rms}) + 1\% FS$ |
| <b>Power Factor<br/>(PF)</b>             | Range      | 0~1 lead or lag               |
|  | Resolution | 0.001                         |

\*1, Typical condition: 45-100Hz

\*2, Resistance accuracy range:  $(1/(1/R+(1/R)*0.2\%+0.01), 1/(1/R-(1/R)*0.2\%-0.01))$

Test condition: voltage>10%FS, current>10%FS

\*3 Operating Temperature:0-40°C.Temperature coefficient:100ppm/°C

| Parameter  |                      | IT8624                      | V1.2 |
|--|----------------------|-----------------------------|------|
| <b>AC Section</b>  |                      |                             |      |
| <b>Input<br/>parameter</b>                               | <b>Input voltage</b> | 50~420Vrms , 600V peak      |      |
|  | <b>Current</b>       | 0~80Arms ,240Apeak          |      |
|  | <b>Power</b>         | 0-7.2kW                     |      |
|  | <b>Frequency</b>     | 45~450Hz                    |      |
| <b>CC mode<br/>*1</b>                                    | <b>Range</b>         | 0.4~80Arms                  |      |
|  | <b>Resolution</b>    | 2mA                         |      |
|  | <b>Accuracy</b>      | $\pm(0.2\%+0.2\%FS)$        |      |
| <b>CR mode<br/>*2</b>                                    | <b>Range</b>         | 0.75 $\Omega$ ~625 $\Omega$ |      |
|  | <b>Resolution</b>    | 16bit                       |      |
|  | <b>Accuracy</b>      | 0.2% +0.01S                 |      |
| <b>CP mode</b>   | <b>Range</b>         | 7.2kW                       |      |
|  | <b>Resolution</b>    | 1W                          |      |
|  | <b>Accuracy</b>      | 0.5%+0.5%FS                 |      |
| <b>Crest Factor<br/>(CF)<br/>(in CP and CC<br/>mode)</b> | <b>Range</b>         | 1.414~5.0                   |      |
|  | <b>Resolution</b>    | 0.005                       |      |
|  | <b>Accuracy</b>      | $(2\% / I_{rms}) + 1\% FS$  |      |
| <b>Power Factor<br/>(PF)</b>                             | <b>Range</b>         | 0~1 lead or lag             |      |
|  | <b>Resolution</b>    | 0.001                       |      |
| <b>DC Section</b>  |                      |                             |      |



| Parameter                |   | IT8624                                | V1.2 |
|--------------------------|---|---------------------------------------|------|
| Input parameter          | Input voltage                                   | 10-600V                               |      |
|                          | Input current                                   | 0.4~80A                               |      |
|                          | Input Power                                     | 0-7.2kW                               |      |
| Operating mode           | CC、CR、CP  |                                       |      |
| Short Circuit Simulation | The maximum power or current in CC mode         |                                       |      |
| <b>Meter</b>             |   |                                       |      |
| Current                  | Range   | 0-240A                                |      |
|                          | Resolution                                      | 5mA                                   |      |
|                          | Accuracy  | 0.1%+0.2%FS+0.1%*CF <sup>2</sup> *KHZ |      |
| Voltage                  | Range   | 0-600V                                |      |
|                          | Resolution                                      | 10mV                                  |      |
|                          | Accuracy  | 0.1%+0.1%FS                           |      |
| <b>Meter (continue)</b>  |   |                                       |      |
| Other Parameters         | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT |                                       |      |
| <b>Other</b>             |   |                                       |      |
| V monitor                | ±600v/±10V(Isolation)                           |                                       |      |
| I monitor                | ±240A/±10V(Isolation)                           |                                       |      |
| Protection               | OCP: 84Arms,OVP: 430Vrms,OPP: 7.5kW,OTP: 85°C   |                                       |      |
| Interface                | GPIB、USB、LAN                                    |                                       |      |
| Dimension                | 24U   |                                       |      |
| Weight                   | -   |                                       |      |
| Power Supply Input       | Voltage   | 100-240V AC                           |      |
|                          | Frequency                                       | 47-63 Hz                              |      |
|                          | Current   | <7A(110V), <3.5A(220V)                |      |

\*1、 Typical parameter values in case of the 45-100HZ

\*2、 The scope of read-back resistance is (  $1/(1/R+(1/R)*0.2\%+0.01)$ ,  $1/(1/R-(1/R)*0.2\%-0.01)$  )  
Test condition: The voltage/current input is no less than 10% FS.

| Parameter         |               | IT8625                 | V1.3 |
|-------------------|---------------|------------------------|------|
| <b>AC Section</b> |               |                        |      |
| Input             | Input Voltage | 50~420Vrms , 600V peak |      |

| Parameter                               |  | IT8625                         | V1.3 |
|---|--|--------------------------------|------|
| Parameter                               | Current                                  | 0~100Arms ,300Apeak            |      |
|   | Power                                    | 0-9kW                          |      |
|   | Frequency                                | 45~450Hz                       |      |
| CC mode<br>*1                           | Range                                    | 0.5~100Arms                    |      |
|   | Resolution                               | 2mA                            |      |
|   | Accuracy                                 | $\pm(0.5\%+0.5\%FS)$           |      |
| CR mode<br>*2                           | Range                                    | 0.6 $\Omega$ ~500 $\Omega$     |      |
|   | Resolution                               | 16bit                          |      |
|   | Accuracy                                 | 0.2% +0.02S                    |      |
| CP mode                                 | Range                                    | 9kW                            |      |
|   | Resolution                               | 3W                             |      |
|   | Accuracy                                 | 0.5%+0.5%FS                    |      |
| Crest Factor(CF)<br>(in CP and CC mode) | Range                                    | 1.414~5.0                      |      |
|   | Resolution                               | 0.005                          |      |
|   | Accuracy                                 | $(2.5\% / I_{rms}) + 1\% FS$   |      |
| Power Factor<br>(PF)                    | Range                                    | 0~1 lead or lag                |      |
|   | Resolution                               | 0.001                          |      |
| <b>DC Section</b>                       |  |                                |      |
| Input Parameter                         | Input Voltage                            | 10-600V                        |      |
|   | Input Current                            | 0.5~100A                       |      |
|   | Input Power                              | 0-9kW                          |      |
| Operating Mode                          | CC、CR、CP                                 |                                |      |
| Short Circuit Simulation                | The maximum power or current in CC mode. |                                |      |
| <b>Meter</b>                            |  |                                |      |
| Current                                 | Range                                    | 0-300A                         |      |
|   | Resolution                               | 0.1A                           |      |
|   | Accuracy                                 | $0.1\%+0.2\%FS+0.1\%*CF^2*KHZ$ |      |
| Voltage                                 | Range                                    | 0-600V                         |      |
|   | Resolution                               | 10mV                           |      |
|   | Accuracy                                 | 0.1%+0.1%FS                    |      |
| <b>Meter (continue)</b>                 |  |                                |      |

| Parameter          |   | IT8625                   | V1.3 |
|--------------------|---|--------------------------|------|
| Other Parameters   | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT |                          |      |
| <b>Other</b>       |   |                          |      |
| V monitor          | ±600v/±10V(Isolation)                           |                          |      |
| I monitor          | ±300A/±10V(Isolation)                           |                          |      |
| Protection         | OCP:110Arms,OVP:430Vrms,OPP:9.5kW,OTP:85℃       |                          |      |
| Interface          | GPIB、USB、LAN                                    |                          |      |
| Dimension          | 550.0000mm (W) *1291.19 (H) *834.8mm (D)        |                          |      |
| Weight             | 160KG   |                          |      |
| Input Power Supply | Voltage   | 100-240V AC              |      |
|                    | Frequency                                       | 47-63 Hz                 |      |
|                    | Current   | <7.6A(110V), <3.8A(220V) |      |

\*1、 Typical parameter values in case of the **45-100HZ**

\*2、 The scope of read-back resistance is (  $1/(1/R+(1/R)*0.2\%+0.01)$ ,  $1/(1/R-(1/R)*0.2\%-0.01)$  )  
 Test condition: The voltage/current input is no less than 10% FS.

| Parameter                           |               | IT8626                 | V1.3 |
|-------------------------------------|---------------|------------------------|------|
| <b>AC Section</b>                   |               |                        |      |
| Input Parameter                     | Input Voltage | 50~420Vrms , 600V peak |      |
|                                     | Current       | 0~120Arms ,360Apeak    |      |
|                                     | Power         | 0-10.8kW               |      |
|                                     | Frequency     | 45~450Hz               |      |
| CC mode<br>*1                       | Range         | 0.1~120Arms            |      |
|                                     | Resolution    | 20mA                   |      |
|                                     | Accuracy      | ±(0.5%+0.5%FS)         |      |
| CR mode<br>*2                       | Range         | 0.5Ω~416.6Ω            |      |
|                                     | Resolution    | 16bit                  |      |
|                                     | Accuracy      | 0.2% +0.02S            |      |
| CP mode                             | Range         | 10.8kW                 |      |
|                                     | Resolution    | 3W                     |      |
|                                     | Accuracy      | 0.5%+0.5%FS            |      |
| Crest Factor (CF)<br>(in CP and CC) | Range         | 1.414~5.0              |      |
|                                     | Resolution    | 0.005                  |      |

| Parameter                |   | IT8626                    | V1.3 |
|--------------------------|---|---------------------------|------|
| mode)                    | Accuracy  | (3% / Irms) + 1% FS       |      |
| Power Factor (PF)        | Range   | 0~1 lead or lag           |      |
|                          | Resolution                                      | 0.001                     |      |
| <b>DC Section</b>        |   |                           |      |
| Input Parameter          | Input Voltage                                   | 10-600V                   |      |
|                          | Input Current                                   | 0.1~120A                  |      |
|                          | Input Power                                     | 0-10.8kW                  |      |
| Operating Mode           | CC、CR、CP  |                           |      |
| Short Circuit Simulation | The maximum power or current in CC mode.        |                           |      |
| <b>Meter</b>             |   |                           |      |
| Current                  | Range   | 0-360A                    |      |
|                          | Resolution                                      | 0.1A                      |      |
|                          | Accuracy  | 0.1%+0.2%FS+0.1%*CF^2*KHZ |      |
| Voltage                  | Range   | 0-600V                    |      |
|                          | Resolution                                      | 10mV                      |      |
|                          | Accuracy  | 0.1%+0.1%FS               |      |
| <b>Meter (continue)</b>  |   |                           |      |
| Other Parameters         | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT |                           |      |
| <b>Other</b>             |   |                           |      |
| V monitor                | ±600v/±10V(Isolation)                           |                           |      |
| I monitor                | ±360A/±10V(Isolation)                           |                           |      |
| Protection               | OCP: 125Arms,OVP: 430Vrms,OPP: 11kW,OTP: 85℃    |                           |      |
| Interface                | GPIB、USB、LAN                                    |                           |      |
| Dimension                | 550.0000mm (W) *1291.19 (H) *834.8mm (D)        |                           |      |
| Weight                   | 185KG   |                           |      |
| Input Power Supply       | Voltage   | 100-240V AC               |      |
|                          | Frequency                                       | 47-63 Hz                  |      |
|                          | Current   | <9A(110V), <4.5A(220V)    |      |

\*1、 Typical parameter values in case of the 45-100HZ

\*2、 The scope of read-back resistance is (  $1/(1/R+(1/R)*0.2\%+0.01)$ ,  $1/(1/R-(1/R)*0.2\%-0.01)$  )

Test condition: The voltage/current input is no less than 10% FS.

| Parameter                                       |  | IT8627                         | V1.3 |
|---|--|--------------------------------|------|
| <b>AC Section</b>                               |  |                                |      |
| <b>Input Parameter</b>                          | <b>Input Voltage</b>                     | 50~420Vrms , 600V peak         |      |
|   | <b>Current</b>                           | 0~140Arms ,420Apeak            |      |
|   | <b>Power</b>                             | 0-12.6kW                       |      |
|   | <b>Frequency</b>                         | 45~450Hz                       |      |
| <b>CC mode<br/>*1</b>                           | <b>Range</b>                             | 0.7~140Arms                    |      |
|   | <b>Resolution</b>                        | 20mA                           |      |
|   | <b>Accuracy</b>                          | $\pm(0.5\%+0.5\%FS)$           |      |
| <b>CR mode<br/>*2</b>                           | <b>Range</b>                             | 0.5 $\Omega$ ~350 $\Omega$     |      |
|   | <b>Resolution</b>                        | 16bit                          |      |
|   | <b>Accuracy</b>                          | 0.2% +0.02S                    |      |
| <b>CP mode</b>                                  | <b>Range</b>                             | 12.6kW                         |      |
|   | <b>Resolution</b>                        | 3W                             |      |
|   | <b>Accuracy</b>                          | 0.5%+0.5%FS                    |      |
| <b>Crest Factor(CF)<br/>(in CP and CC mode)</b> | <b>Range</b>                             | 1.414~5.0                      |      |
|   | <b>Resolution</b>                        | 0.005                          |      |
|   | <b>Accuracy</b>                          | $(3.5\% / I_{rms}) + 1\% FS$   |      |
| <b>Power Factor<br/>(PF)</b>                    | <b>Range</b>                             | 0~1 lead or lag                |      |
|   | <b>Resolution</b>                        | 0.001                          |      |
| <b>DC Section</b>                               |  |                                |      |
| <b>Input Parameter</b>                          | <b>Input Voltage</b>                     | 10-600V                        |      |
|   | <b>Input Current</b>                     | 0.7~140A                       |      |
|   | <b>Input Power</b>                       | 0-12.6kW                       |      |
| <b>Operating Mode</b>                           | CC、CR、CP                                 |                                |      |
| <b>Short Circuit Simulation</b>                 | The maximum power or current in CC mode. |                                |      |
| <b>Meter</b>                                    |  |                                |      |
| <b>Current</b>                                  | <b>Range</b>                             | 0-420A                         |      |
|   | <b>Resolution</b>                        | 0.1A                           |      |
|   | <b>Accuracy</b>                          | $0.1\%+0.2\%FS+0.1\%*CF^2*KHZ$ |      |

| Parameter               |   | IT8627                    | V1.3 |
|-------------------------|---|---------------------------|------|
| Voltage                 | Range   | 0-600V                    |      |
|                         | Resolution                                      | 10mV                      |      |
|                         | Accuracy  | 0.1%+0.1%FS               |      |
| <b>Meter (continue)</b> |   |                           |      |
| Other Parameters        | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT |                           |      |
| <b>Other</b>            |   |                           |      |
| V monitor               | ±600v/±10V(Isolation)                           |                           |      |
| I monitor               | ±420A/±10V(Isolation)                           |                           |      |
| Protection              | OCP: 150rms,OVP: 430Vrms,OPP: 12.6kW,OTP: 85℃   |                           |      |
| Interface               | GPIB、USB、LAN                                    |                           |      |
| Dimension               | 550.0000mm (W) *1869.75 (H) *834.8mm (D)        |                           |      |
| Weight                  | 205KG   |                           |      |
| Input Power Supply      | Voltage   | 100-240V AC               |      |
|                         | Frequency                                       | 47-63 Hz                  |      |
|                         | Current   | <10.4A(110V), <5.2A(220V) |      |

\*1、 Typical parameter values in case of the 45-100HZ

\*2、 The scope of read-back resistance is (  $1/(1/R+(1/R)*0.2\%+0.01)$ , $1/(1/R-(1/R)*0.2\%-0.01)$  )  
Test condition: The voltage/current input is no less than 10% FS.

| Parameter         |               | IT8628                 | V1.3 |
|-------------------|---------------|------------------------|------|
| <b>AC Section</b> |               |                        |      |
| Input Parameter   | Input Voltage | 50~420Vrms , 600V peak |      |
|                   | Current       | 0~160Arms ,480Apeak    |      |
|                   | Power         | 0-14.4kW               |      |
|                   | Frequency     | 45~450Hz               |      |
| CC mode<br>*1     | Range         | 0.8~160Arms            |      |
|                   | Resolution    | 2mA                    |      |
|                   | Accuracy      | ±(0.5%+0.5%FS)         |      |
| CR mode<br>*2     | Range         | 0.375Ω~312.5Ω          |      |
|                   | Resolution    | 16bit                  |      |
|                   | Accuracy      | 0.2% +0.02S            |      |
| CP mode           | Range         | 14.4kW                 |      |

| Parameter                               |   | IT8628                    | V1.3 |
|---|---|---------------------------|------|
|   | Resolution                                      | 3W                        |      |
|   | Accuracy  | 0.5%+0.5%FS               |      |
| Crest Factor(CF)<br>(in CP and CC mode) | Range   | 1.414~5.0                 |      |
|   | Resolution                                      | 0.005                     |      |
|   | Accuracy  | (4% / Irms) + 1% FS       |      |
| Power Factor (PF)                       | Range   | 0~1 lead or lag           |      |
|   | Resolution                                      | 0.001                     |      |
| <b>DC Section</b>                       |   |                           |      |
| Input Parameter                         | Input Voltage                                   | 10-600V                   |      |
|   | Input Current                                   | 0.8~160A                  |      |
|   | Input Power                                     | 0-14.4kW                  |      |
| Operating Mode                          | CC、CR、CP  |                           |      |
| Short Circuit Simulation                | The maximum power or current in CC mode.        |                           |      |
| <b>Meter</b>                            |   |                           |      |
| Current                                 | Range   | 0-480A                    |      |
|   | Resolution                                      | 0.1A                      |      |
|   | Accuracy  | 0.1%+0.2%FS+0.1%*CF^2*KHZ |      |
| Voltage                                 | Range   | 0-600V                    |      |
|   | Resolution                                      | 10mV                      |      |
|   | Accuracy  | 0.1%+0.1%FS               |      |
| <b>Meter (continue)</b>                 |   |                           |      |
| Other Parameters                        | S(VA),Q(VAR),P(W),Ip+,Ip-,Freq,THDv,CF,PF,R,FFT |                           |      |
| <b>Other</b>                            |   |                           |      |
| V monitor                               | ±600v/±10V(Isolation)                           |                           |      |
| I monitor                               | ±480A/±10V(Isolation)                           |                           |      |
| Protection                              | OCP: 185rms,OVP: 430Vrms,OPP: 14.6kW,OTP: 85℃   |                           |      |
| Interface                               | GPIB、USB、LAN                                    |                           |      |
| Dimension                               | 550.0000mm (W) *1869.75 (H) *834.8mm (D)        |                           |      |
| Weight                                  | 230KG   |                           |      |
| Input Power                             | Voltage   | 100-240V AC               |      |

| Parameter |           | IT8628                | V1.3 |
|-----------|-----------|-----------------------|------|
| Supply    | Frequency | 47-63 Hz              |      |
|           | Current   | <12A(110V), <6A(220V) |      |

\*1、 Typical parameter values in case of the 45-100HZ

\*2、 The scope of read-back resistance is (  $1/(1/R+(1/R)*0.2\%+0.01)$ ,  $1/(1/R-(1/R)*0.2\%-0.01)$  )

Test condition: The voltage/current input is no less than 10% FS.