

| Model                    |                         | IT8512C+                   |                            |
|--------------------------|-------------------------|----------------------------|----------------------------|
| Rated value<br>(0~40 °C) | Input voltage           | 0~120V                     |                            |
|                          | Input current           | 0~6A                       | 0~60A                      |
|                          | Input power             | 300W                       |                            |
|                          | Minimum operation value | 0.25V at 6A                | 2.5V at 60A                |
| CV mode                  | Range                   | 0.1~18V                    | 0.1~120V                   |
|                          | Resolution              | 1mV                        | 10mV                       |
|                          | Accuracy                | $\pm(0.05\%+0.02\%FS)$     | $\pm(0.05\%+0.025\%FS)$    |
| CC mode                  | Range                   | 0~6A                       | 0~60A                      |
|                          | Resolution              | 0.1mA                      | 1mA                        |
|                          | Accuracy                | $\pm(0.05\%+0.05\%FS)$     | $\pm(0.05\%+0.1\%FS)$      |
| CR mode<br>*1            | Range                   | 0.05 $\Omega$ ~10 $\Omega$ | 10 $\Omega$ ~7.5K $\Omega$ |
|                          | Resolution              | 16bit                      |                            |
|                          | Accuracy                | 0.01%+0.08S *2             | 0.01%+0.0008S              |
| CP mode<br>*3            | Range                   | 300W                       |                            |
|                          | Resolution              | 10mW                       |                            |
|                          | Accuracy                | $\pm(0.1\%+0.3\%FS)$       |                            |
| <b>Dynamic mode</b>      |                         |                            |                            |
| Dynamic mode             | CC mode                 |                            |                            |
|                          | T1&T2                   | 20uS~3600S /Res:1 uS       |                            |
|                          | Accuracy                | 2uS $\pm$ 100ppm           |                            |
|                          | Rising/Falling slope *4 | 0.0001~0.3A/uS             | 0.001~3A/uS                |
|                          | Minimum rise time *5    | $\cong$ 10uS               | $\cong$ 10uS               |
| <b>Measuring range</b>   |                         |                            |                            |
| Readback voltage         | Range                   | 0~18V                      | 0~120V                     |
|                          | Resolution              | 0.1 mV                     | 1 mV                       |
|                          | Accuracy                | $\pm(0.025\%+0.025\%FS)$   | $\pm(0.025\%+0.025\%FS)$   |
| Readback current         | Range                   | 0~6A                       | 0~60A                      |
|                          | Resolution              | 0.1mA                      | 1mA                        |
|                          | Accuracy                | $\pm(0.05\%+0.05\%FS)$     | $\pm(0.05\%+0.1\%FS)$      |
| Readback power           | Range                   | 300W                       |                            |
|                          | Resolution              | 10mW                       |                            |
|                          | Accuracy                | $\pm(0.1\%+0.3\%FS)$       |                            |
| <b>Protection range</b>  |                         |                            |                            |
| OPP Protection           | $\cong$ 320W            |                            |                            |
| OCP Protection           | $\cong$ 6.5A            | $\cong$ 65A                |                            |

|                        |                        |         |         |
|------------------------|------------------------|---------|---------|
| <b>OVP Protection</b>  | ≈125V                  |         |         |
| <b>OTP Protection</b>  | ≈85°C                  |         |         |
| <b>Specification</b>   |                        |         |         |
| <b>Short</b>           | Current( CC )          | ≈6.5/6A | ≈65/60A |
|                        | Voltage( CV )          | 0V      | 0V      |
|                        | Resistance( C R )      | ≈40mΩ   | ≈40mΩ   |
| <b>Input Impedance</b> | 150KΩ                  |         |         |
| <b>Dimension</b>       | 214.5mm*88.2mm*354.6mm |         |         |

- \*1 The voltage/current input is no less than 10% FS**
- \*2 The scope of read-back resistance is:  $(1/(1/R+(1/R)*0.01\%+0.08),1/(1/R-(1/R)*0.01\%-0.08))$**
- \*3 The voltage/current input is no less than 10% FS**
- \*4 Ascending/descending slope: 10%-90% current ascending slope from 0 to maximum current.**
- \*5 Minimum rise time: 10%-90% current rise time**