



\* DSC33 45-120K

\* DSC33 10-30K

**DS10KC33 / DS15KC33 / DS22.5KC33 /  
DS30KC33 / DS45KC33 / DS60KC33 /  
DS80KC33 / DS100KC33 / DS120KC33**

### Energy Saving :

With such high efficiency, you will save on energy consumption. This ensures lower operation costs and faster returns on your investments.

#### ► Topology:

Double Conversion

#### ► Rating:

10KVA to 120KVA

#### ► Voltage:

208V/120V,380V/220V

### Features

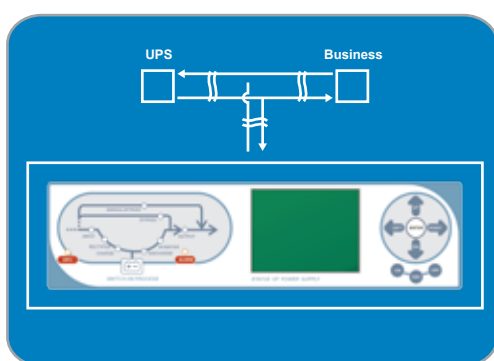
- \* Highest performance and reliability using DSP (Digital Signal Processor)
- \* SPWM (Sinewave Pulse Width Modulation) and IGBT to handle even the most difficult industrial applications
- \* User-friendly interface and multi-functional display allowing access to a variety of parameters

### Applications:

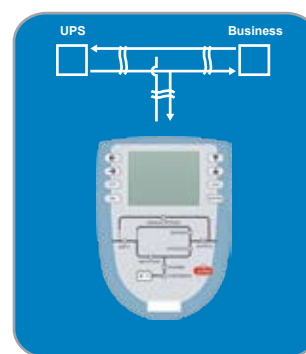
- \* Industrial
- \* Medical
- \* ISP/ASP/POP
- \* Servers
- \* Data Centers
- \* Telecommunications

### Front Panel

DSC10-30KC33



DSC45-120KC33



## Specifications

| Model                                    | DS 10KC33                       | DS 15KC33   | DS 22.5KC33                     | DS 30KC33      | DS 45KC33                     | DS 60KC33       | DS 80KC33       | DS 100KC33 | DS 120KC33                      |  |
|--|---------------------------------|---|---------------------------------|----------------|-------------------------------|-----------------|-----------------|------------|---------------------------------|--|
| Capacity                                 | 10KVA                           | 15KVA   | 22.5KVA                         | 30KVA          | 45KVA                         | 60KVA           | 80KVA           | 100KVA     | 120KVA                          |  |
| Rating Power                             | 8KW                             | 12KW  | 18KW                            | 24KW           | 36KW                          | 48KW            | 64KW            | 80KW       | 96KW                            |  |
| Power factor                             | 0.8                             |   |                                 |                |                               |                 |                 |            |                                 |  |
| AC input                                 | Phase                           | 3 Phase 3 wire / 3 Phase 4 wire and ground  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Voltage                         | 380V/220V or 208V/120V ±20 %  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Frequency                       | Auto-sensing, 50Hz/60Hz ±5 Hz   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Regulation style                | 3 phase 6 pulses or 12 pulses (option)  |                                 |                |                               |                 |                 |            |                                 |  |
|  | DC voltage                      | DC410V  |                                 |                |                               |                 |                 |            |                                 |  |
| Efficiency of rectifier                  | >97%                            |   |                                 |                |                               |                 |                 |            |                                 |  |
| Efficiency of Inverter                   | >88%                            |   |                                 |                |                               |                 |                 |            |                                 |  |
| Total Efficiency                         | >85%                            |   |                                 |                |                               |                 |                 |            |                                 |  |
| Output                                   | Phase                           | 3 phase 4 wire and ground   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Voltage range                   | 380V/220V or 208V/120V  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Voltage regulation              | ±1%   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Transient state                 | Return to 90% with 4 cycle  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Overload capacity               | Bypass after 30 min while overload >100% <125%  |                                 |                |                               |                 |                 |            |                                 |  |
|  |                                 | Bypass after 30 sec while overload =125% ± 150%   |                                 |                |                               |                 |                 |            |                                 |  |
|  |                                 | Bypass after 30 cycles while overload exceed 150%   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Way of Inverter                 | Sine wave modulated from 20KHz pulse by DSP control                                       |                                 |                |                               |                 |                 |            |                                 |  |
|  | Frequency                       | 50Hz/60Hz   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Frequency regulation            | ±0.1%   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Range of phase lock             | ±5 Hz   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Range of lock released          | >±5 Hz  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Range of lock back              | ±3 Hz   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Wave                            | Sine wave   |                                 |                |                               |                 |                 |            |                                 |  |
| Load crest factor                        | 3:1                             |   |                                 |                |                               |                 |                 |            |                                 |  |
| Total harmonic distortion                | Less 3% linear load             |   |                                 |                |                               |                 |                 |            |                                 |  |
| Static Switch                            | Transfer way                    | When inverter and utility are synchronized at same phase and voltage, bypass              |                                 |                |                               |                 |                 |            |                                 |  |
|  | Transfer time                   | Bypass to inverter 0mS  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Efficiency                      | Normal state, inverter to bypass 0mS  |                                 |                |                               |                 |                 |            |                                 |  |
| Charger                                  | Voltage                         | DC410V  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Current                         | Current can be adjusted at 1A, 2A, 3A, 5A, 10A, 15A, 20A, 30A automatically               |                                 |                |                               |                 |                 |            |                                 |  |
|  | Charging period                 | Return to 90% from 100% exhausted battery within 8 hours (depending on type of batteries) |                                 |                |                               |                 |                 |            |                                 |  |
| Utility                                  | Battery type                    | Bank with 12V X 30 pcs  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Backup time                     | Depending on type of batteries  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Noise                           | Less than 60dBA from the surface of 1m away   |                                 |                |                               |                 |                 |            |                                 |  |
| Environment                              | Operating Temperature           | 0~40°C  |                                 |                |                               |                 |                 |            |                                 |  |
|  | Storage Temperature             | -25°C ~55°C   |                                 |                |                               |                 |                 |            |                                 |  |
|  | Ambient operation               | 3,500 meters max. elevation, 0-95% humidity non-condensing                                |                                 |                |                               |                 |                 |            |                                 |  |
| Model                                    | DS 10KC33                       | DS 15KC33   | DS 22.5KC33                     | DS 30KC33      | DS 45KC33                     | DS 60KC33       | DS 80KC33       | DS 100KC33 | DS 120KC33                      |  |
| <b>PHYSICAL</b>                          |                                 |   |                                 |                |                               |                 |                 |            |                                 |  |
| <b>380V / 220V</b>                       |                                 |   |                                 |                |                               |                 |                 |            |                                 |  |
| Dimensions (Physical / Packing) (inches) | 34.4x20.9x39.8 / 39.8x26.6x48.4 |   | 37.8x20.9x46.4 / 42.9x26.6x59.4 |                | 31.5x29.5x66.9 / 36.8x34.8x75 |                 | TBD             |            | 31.5x43.3x70.9 / 36.2x48.0x79.1 |  |
| ( LxWxH ) (mm)                           | 875x530x1010 / 1010x675x1230    |   | 960x530x1180 / 1090x675x1510    |                | 800x750x1700 / 935x885x1905   |                 | TBD             |            | 800x1100x1800 / 920x1220x2010   |  |
| Weight (Net / Gross) (lbs)               | 733.5 / 817.2                   | 755.5 / 839.2   | 759.9 / 865.6                   | 907.5 / 1013.2 | 1198.2 / 1418.5               | 1389.9 / 1610.1 | 1656.4 / 1881.1 | TBD        | 3105.7 / 3281.9                 |  |
| (kg)                                     | 333 / 371                       | 343 / 381   | 345 / 393                       | 412 / 460      | 544 / 644                     | 631 / 731       | 752 / 854       | TBD        | 1410 / 1490                     |  |
| <b>208V / 120V</b>                       |                                 |   |                                 |                |                               |                 |                 |            |                                 |  |
| Dimensions (Physical / Packing) (inches) | 34.4x20.9x39.8 / 39.8x26.6x48.4 |   | 7.8x20.9x46.4 / 42.9x26.6x59.4  |                | 31.5x29.5x66.9 / 36.8x34.8x75 |                 | TBD             |            | TBD                             |  |
| ( LxWxH ) (mm)                           | 875x530x1010 / 1010x675x1230    |   | 960x530x1180 / 1090x675x1510    |                | 800x750x1700 / 935x885x1905   |                 | TBD             |            | TBD                             |  |
| Weight (Net / Gross) (lbs)               | 940.5 / 1024.2                  | 1019.8 / 1103.5   | 1006.6 / 1112.3                 | 1196 / 1301.8  | 1616.7 / 1837                 | 1874.4 / 2094.7 | TBD             |            | TBD                             |  |
| (kg)                                     | 427 / 465                       | 463 / 501   | 457 / 505                       | 543 / 591      | 734 / 834                     | 851 / 951       | TBD             |            | TBD                             |  |



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