### 200 V Class (Three-Phase/Single-Phase)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Normal Duty</th>
<th>Heavy Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input Current (A)</td>
<td>5.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Rated Output Voltage (V)</td>
<td>220</td>
<td>440</td>
</tr>
<tr>
<td>Max. Output Frequency (Hz)</td>
<td>60</td>
<td>400</td>
</tr>
<tr>
<td>Overload Tolerance</td>
<td>120% of rated output current for 60 s.</td>
<td>150% of rated output current for 60 s.</td>
</tr>
</tbody>
</table>

### 380 V Class (Three-Phase)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Normal Duty</th>
<th>Heavy Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input Current (A)</td>
<td>5.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Rated Output Voltage (V)</td>
<td>440</td>
<td>550</td>
</tr>
<tr>
<td>Max. Output Frequency (Hz)</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Overload Tolerance</td>
<td>120% of rated output current for 60 s.</td>
<td>150% of rated output current for 60 s.</td>
</tr>
</tbody>
</table>

### 400 V Class (Three-Phase)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Normal Duty</th>
<th>Heavy Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input Current (A)</td>
<td>5.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Rated Output Voltage (V)</td>
<td>550</td>
<td>690</td>
</tr>
<tr>
<td>Max. Output Frequency (Hz)</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Overload Tolerance</td>
<td>120% of rated output current for 60 s.</td>
<td>150% of rated output current for 60 s.</td>
</tr>
</tbody>
</table>

### Single-Phase AC Power Supply

- Single-phase 200 to 240 V, 50/60 Hz
- Rated Input Current: 2.0 A
- Rated Output Voltage: 120 V
- Max. Output Frequency: 400 Hz
- Overload Tolerance: 120% of rated output current for 60 s.

### Three-Phase AC Power Supply

- Rated Input Current: 5.0 A
- Rated Output Voltage: 440 V
- Max. Output Frequency: 400 Hz
- Overload Tolerance: 120% of rated output current for 60 s.

### Important Notes

- Not compliant with the UL standards when using a DC power supply. To meet CE standards, fuses should be installed. For details, refer to page 37.
- Increasing the carrier frequency requires a reduction in current.

### Contact Information

YASKAWA India Pvt. Ltd.,
10th Floor, Ontario Tower, 32, M.G. Road, Bengaluru 560 001, India
Phone: +91-80-4244 1900, Fax: +91-80-2950 2200
Web: www.yaskawaindia.in

YASKAWA ELECTRIC CORPORATION
2-13-1, Takanawa, Minato-ku, Tokyo 105-8587, Japan
Phone: +81-3-5402-4502, Fax: +81-3-5402-4503
Web: www.yaskawa.co.jp

YASKAWA ELECTRIC CORPORATION
1-14-14, Nakanoshima 2-Chome, Koto-ku, Tokyo 135-0002, Japan
Phone: +81-3-5603-2200, Fax: +81-3-5603-2201
Web: www.yaskawa.co.jp

YASKAWA ELECTRIC CORPORATION
1-2, Takanawa 2-Chome, Minato-ku, Tokyo 105-8587, Japan
Phone: +81-3-5775-2200, Fax: +81-3-5775-2201
Web: www.yaskawa.co.jp

YASKAWA ELECTRIC INDIA PRIVATE LIMITED
17th floor, Astoria Tower, Nariman Point, Mumbai 400 021, India
Phone: +91-22-2289-9998, Fax: +91-22-2289-9998
Web: www.yaskawaindia.in

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC (SHANGHAI) CO., LTD.
No. 18 Xizang Zhong Road, 17F, Harbour Ring Plaza, Shanghai, 200001, China
Phone: +86-21-6106-9090, Fax: +86-21-6106-9030
Web: www.yaskawa.com.cn

YASKAWA ELECTRIC (SINGAPORE) PTE. LTD.
101 Lower Cluny Rd, #01-01, New Tech Place, Singapore 650571
Phone: +65-6282-3300, Fax: +65-6294-9033
Web: www.yaskawa.com.sg

YASKAWA ELECTRIC (TAIWAN) CORPORATION
No. 13, Section 4, Minsheng East Rd., Taipei, Taiwan 106, Taiwan
Phone: +886-2-2595-6034, Fax: +886-2-2595-6036
Web: www.yaskawa.com.tw

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC (SHANGHAI) CO., LTD.
BEIJING OFFICE
Room 1507, Traders' Tower, Zhongguancun North Rd., Haidian District, Beijing, 100190, China
Phone: +86-10-6281-1090, Fax: +86-10-6281-1091
Web: www.yaskawa.com.cn

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC (SHANGHAI) CO., LTD.
Hauptstrasse 185, 65760 Eschborn, Germany
Phone: (800) YASKAWA (927-5292) or 1-847-887-7000, Fax: 1-847-887-7310
Web: www.yaskawa.com

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC CORPORATION
HOSUR ROAD, BANGALORE 560 100.
Phone: 080 4244 1900, Web: www.yaskawaindia.in

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC CORPORATION
3-7-7, Yurakucho, Chiyoda-ku, Tokyo 100-8026, Japan
Phone: +81-3-5402-4502, Fax: +81-3-5402-4503
Web: www.yaskawa.co.jp

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC CORPORATION
5001 S. 18th East Ave., Ste. 135, Salt Lake City, UT 84105, USA
Phone: +1-800-449-9599, Fax: +1-801-499-3898
Web: www.yaskawa.com

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC CORPORATION
9F, 16, Nanking E. Rd., Sec. 3, Taipei, 104, Taiwan
Phone: +886-2-2595-6034, Fax: +886-2-2595-6036
Web: www.yaskawa.com

YASKAWA ELECTRIC CORPORATION
YASKAWA ELECTRIC CORPORATION
No. 18, Xingfu Rd., 17F, Nanhai King Plaza, Shanghai, 200023, China
Phone: +86-21-6106-9090, Fax: +86-21-6106-9030
Web: www.yaskawa.com.cn

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0.1 KW – 18.5KW

YASKAWA SOLAR PUMP CONTROLLER WITH BUILT IN MPPT

Loaded with Passion for Technology
YASKAWA SOLAR PUMP CONTROLLER
SOURCING THE SUN

Solar Pumping System:

- Uses the world class compact V1000 Solar drive
- Suitable for 3LDC & PM Motors
- Suitable for surface mount and submersible pumps with 3-phase induction motors
- Wide range capacity from 0.1 kW to 10.5 kW
- All-day Run-Stop-Restart mode management
- Diagnostics and self-protection features
- Protection against dry run of pump
- Simple and faster installation and Commissioning

V1000 Technical Specifications:

<table>
<thead>
<tr>
<th>Electrical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Inverter type</td>
</tr>
<tr>
<td>Grid Supply (V/Hz Rating)</td>
</tr>
<tr>
<td>Input DC voltage(min)</td>
</tr>
<tr>
<td>Input DC voltage(max)</td>
</tr>
<tr>
<td>Input AC voltage(min)</td>
</tr>
<tr>
<td>Input AC voltage(max)</td>
</tr>
<tr>
<td>Output AC Voltage</td>
</tr>
<tr>
<td>Motor Current and Power</td>
</tr>
<tr>
<td>Motor Frequency</td>
</tr>
<tr>
<td>Motor control technology</td>
</tr>
<tr>
<td>MPPT Voltage</td>
</tr>
<tr>
<td>Over Load capacity</td>
</tr>
<tr>
<td>Protection</td>
</tr>
<tr>
<td>Ambient Temperature</td>
</tr>
<tr>
<td>Relative Humidity</td>
</tr>
</tbody>
</table>

Electrical Specification:

- V/F control with Derived MPPT Technology
- Change over Available
- 380 VDC to 580 VDC
- 280 VDC to 310 VDC
- 580 VDC to 620 VDC
- 3 Phase 190-240 V (+15%, -10%) / 380-480 V (+15%, -10%)
- As per chart above

Remote Monitoring:

An Integrated, real-time remote monitoring solution – used to collect, monitor, control, and analyse various operational parameters from VFD driven solar pumps which are installed in remote locations. All parameters and events are stored in the server database.