**MODEL**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>10kVA</th>
<th>15kVA</th>
<th>20kVA</th>
<th>25kVA</th>
<th>30kVA</th>
<th>40kVA</th>
<th>50kVA</th>
<th>60kVA</th>
<th>80kVA</th>
<th>100kVA</th>
<th>125kVA</th>
<th>160kVA</th>
<th>200kVA</th>
<th>250kVA</th>
<th>315kVA</th>
<th>400kVA</th>
<th>500kVA</th>
<th>630kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Watt</td>
<td>8kW</td>
<td>12kW</td>
<td>16kW</td>
<td>20kW</td>
<td>24kW</td>
<td>30kW</td>
<td>40kW</td>
<td>50kW</td>
<td>60kW</td>
<td>80kW</td>
<td>100kW</td>
<td>120kW</td>
<td>160kW</td>
<td>200kW</td>
<td>250kW</td>
<td>315kW</td>
<td>400kW</td>
<td>500kW</td>
</tr>
</tbody>
</table>

**Working Principle**

Low frequency Transformer Based True On-Line Double Conversion

**RECTIFIER (INPUT) Phase**

Three Phase

**Input Power Factor**

Standard: 0.9 (Simp Rectifier Filter), Optional: 0.9 (130kVA Rectifier Filter)

**Input Voltage Range**

220/380VAC (260/450VAC or 240/480VAC) 5% + 9% \[ \pm \] F, 110V/220VAC (115V/240VAC or 220V/440VAC) optional

**Input Frequency Range**

50/60Hz ± 5Hz (Mechanical)

**Total Harmonic Distortion (THD)**

<5% (Simp Rectifier Filter), Optional: 130kVA Rectifier Filter: <5%

**Output Ripple**

<5%

**Soft Start CHARGING**

0-100% 1Sec

**Charging Mode**

Constant current, then constant voltage charge with temperature compensation, automatic switch Between Equalized charging and Float charging.

**Float Charging**

432VDC

**Voltage Equalized Charging Voltage Temp**

460VDC

**Compensated Voltage**

-4V/12V

**Charging Current**

8.3 (Automatic adjust according to battery capacity)

**BATTERY Type**

VRLA/AGM/GEL, optional Lithium Battery

**Battery Capacity**

7-399Ah (variable 2x24Poule Battery Capacity according to Back-up Time)

**Quantity**

30 units 12V or 152 units 24V batteries (Nominal Voltage 180VDC)

**Temperature**

20°C-30°C (For Maximum Efficiency)

**INVERTER (OUTPUT) Phase**

Three Phase

**Rated Voltage**

Rated Capacity 0.9

**Nominal Voltage**

230/400VAC (240V/480VAC or 240V/480VAC) 5% + 9% \[ \pm \] F, 110V/220VAC (115V/240VAC or 220V/440VAC) optional

**Output Voltage**

±1% (Stable load), ±3% (Runctant load)

**Regulated Accuracy**

±0.5% (Ampere-hour)

**Output Frequency Range**

50Hz/60Hz ± 0.5% (Ampere-hour)

**Crest Factor Output Total**

< 1.5

**Harmonic Distortion (THD)**

Pure Sine Wave, Linear Load: < 3%, Non-linear load: < 5%

**Dynamic**

Instant voltage: < 5% (from 0 to 100%), Instant current: max 1.25 times

**Characteristics Unbalanced Load**

< 15%

**Voltage Overload Capacity**

At 110% load, normal work, At 125% load 10 min, At 150% load 1 min, At 200% load 15

**Inverter Efficiency**

> 92% (Full load) > 95% (full load)

**BYPASS Phase**

Three Phase + N

**Input Nominal**

220/380VAC (220/440VAC or 240/480VAC) 5% + 9% \[ \pm \] F, 110V/220VAC (115V/240VAC or 220V/440VAC) optional

**Voltage**

220/380VAC (220/440VAC or 240/480VAC) 5% + 9% \[ \pm \] F, 110V/220VAC (115V/240VAC or 220V/440VAC) optional

**Transfer Time**

0.05s (excluding static switch)

**PROTECTION FUNCTION**

**Input Protection**

Input voltage, frequency over limited protection, Phase fault, Phase lack

**Output Protection**

Over current, short circuit, over voltage, low voltage

**Battery Protection**

Over charge, over discharge protection

**Temperature**

Environmental over temperature protection, Inverter over temperature protection

**Protection**

Hardware Fault Protection

Assistance power abnormal, breaker cut off, breaker overload, power devices over current over voltage etc protection

**GENERAL SYSTEM PARAMETERS Working**

**Environment**

Temp: 10~+40°C, relative humidity: 30%~90%, Altitude:2000m (1% decrease against 100 meters' rise, max. altitude 4000m.)

**Cooling Method**

MOIST VENTILATION

**Communication Interface**

RS232/RS485, optional dry contact, SNMP card (for remote control via Internet)

**Parallel Operation**

**Anti-surge Capacity**

Tandem hot backup or parallel connection

1/2/3/4, 3/2, 8/6, 9/5, 4/8, 4/4

**Protection Level**

IP31

**Safety Performance**

**Noise (dB)**

40-50

**Dimension (W*H*D)**

250X50X200

**Weight (Kg)**

205

---

* 200V-208V-220V (Ph-Ph) Version is available

Baykee reserves the right to change or modify product design, construction, specifications or materials without prior notice and without incurring any obligation to make such changes and modifications on Baykee products previously or subsequently sold.