

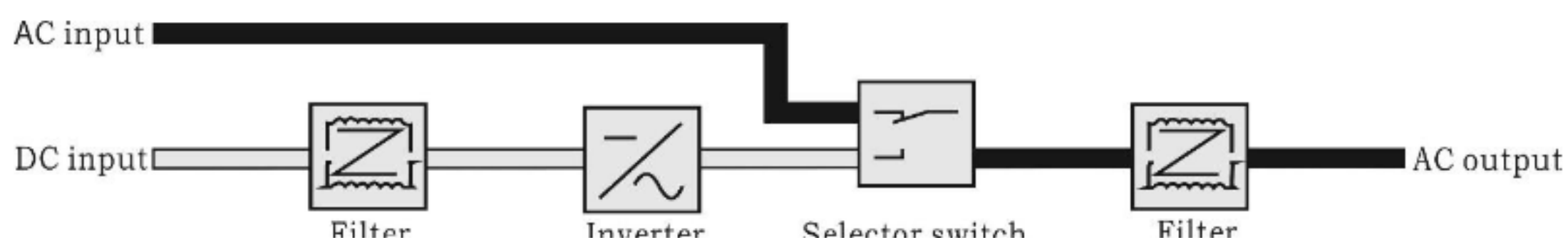
## 220VDC to 220VAC 500VA ~ 10.000VA Pure Sine wave Inverter

The pure sine wave inverter is specially designed for electricity and communication systems. It is a conversion device that converts electricity from the mains city ac voltage or batteries dc voltage to a continuous and purified AC power apply for computers and other electrical equipment. To prepare for the instability of the city electricity and power cuts. It prevents various distortions of utility power also, such as power supply voltage drop, surge voltage, spike voltage, and broadcast frequency interference.



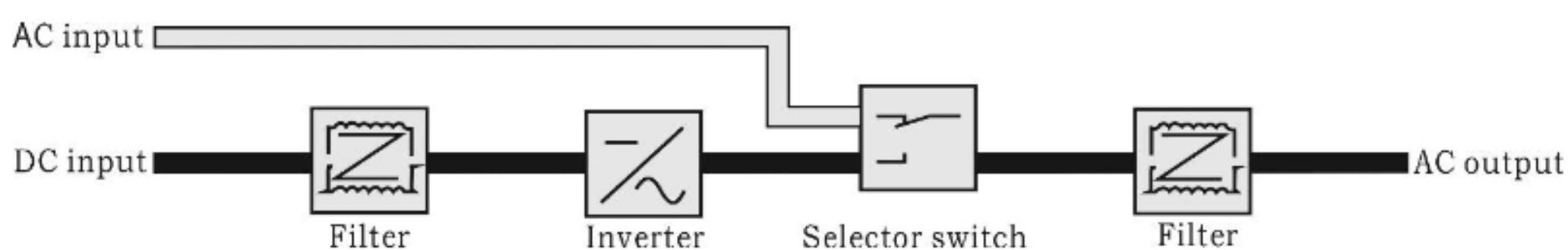
- **AC Mains bypass mode**

- In the AC mains bypass mode, the mains power is switched to the output via a relay, and the mains bypass directly supplies power. When the main fails, it automatically switches to the inverter and is powered by the battery or DC to ensure uninterrupted power supply to the equipment.



- **Inverter mode**

- In the inverter mode, after the DC boost inverter is reversed, it is switched to the output via a relay and directly powered by the battery or DC. When the inverter fails, it automatically switches to the bypass and is powered by the mains to ensure the uninterrupted power supply of the equipment.



**220VDC INPUT SERIES**

| Model                                     | MEM<br>500<br>220V  | MEM<br>1000<br>220V | MEM<br>2000<br>220V | MEM<br>3000<br>220V | MEM<br>4000<br>220V | MEM<br>5000<br>220V | MEM<br>6000<br>220V | MEM<br>8000<br>220V | MEM<br>10000<br>220V |
|---|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| <b>DC Input</b>                           |   |                     |                     |                     |                     |                     |                     |                     |                      |
| Rate input Voltage/Vdc                    | 220Vdc  |                     |                     |                     |                     |                     |                     |                     |                      |
| Rate input Current/A                      | 2.2   | 4.2                 | 8.3                 | 12.4                | 16.7                | 18.3                | 22                  | 34.2                | 42.7                 |
| Input dc range Voltage                    | DC shut down voltage range : 180V—270V<br>DC start up voltage range : 185V--265V                                  |                     |                     |                     |                     |                     |                     |                     |                      |
| Reverse noise Current                     | ≤10%  |                     |                     |                     |                     |                     |                     |                     |                      |
| <b>AC Bypass input</b>                    |   |                     |                     |                     |                     |                     |                     |                     |                      |
| Allow bypass voltage (Vac)                | 220Vac±20%  |                     |                     |                     |                     |                     |                     |                     |                      |
| Rate input current/A                      | 1.8A  | 3.6A                | 7.2A                | 10.8A               | 14.5A               | 18.2A               | 21.8A               | 29A                 | 36A                  |
| Bypass conversion time/ms                 | ≤5ms  |                     |                     |                     |                     |                     |                     |                     |                      |
| <b>AC Output</b>                          |   |                     |                     |                     |                     |                     |                     |                     |                      |
| Rated output Capacity/KVA                 | 0.5K  | 1K                  | 2K                  | 3K                  | 4K                  | 5K                  | 6K                  | 8K                  | 10K                  |
| Rated output power/W                      | 400   | 800                 | 1600                | 2400                | 3200                | 4000                | 4800                | 6400                | 8000                 |
| Rated output voltage and frequency        | 220Vac , 50Hz   |                     |                     |                     |                     |                     |                     |                     |                      |
| Rate output current/A                     | 1.8   | 3.6                 | 7.2                 | 10.8                | 14.5                | 18.2                | 21.8                | 29                  | 36.3                 |
| Output voltage accuracy/V                 | 220Vac±1.5%   |                     |                     |                     |                     |                     |                     |                     |                      |
| Output frequency accuracy/Hz              | 50±0.1%   |                     |                     |                     |                     |                     |                     |                     |                      |
| Waveform distortion rate (THD)            | ≤3% ( Linear load )   |                     |                     |                     |                     |                     |                     |                     |                      |
| Dynamic Response                          | 5% ( Load 25% ← → 100% )  |                     |                     |                     |                     |                     |                     |                     |                      |
| Power Factor/PF                           | 0.8   |                     |                     |                     |                     |                     |                     |                     |                      |
| Over load ability                         | ≥100%~125% , 10mins; 125%~150% , 15seconds; 150% , shut down<br>Immediately                                       |                     |                     |                     |                     |                     |                     |                     |                      |
| Efficiency                                | ≥85% ( 80% Resistive load )   |                     |                     |                     |                     |                     |                     |                     |                      |
| Bypass conversion time/ms                 | ≤5ms  |                     |                     |                     |                     |                     |                     |                     |                      |
| <b>Operating Environment</b>              |   |                     |                     |                     |                     |                     |                     |                     |                      |
| Insulation strength (input and output)    | 1500Vac , 1min  |                     |                     |                     |                     |                     |                     |                     |                      |
| Noise/1m                                  | ≤40dB   |                     |                     |                     |                     |                     |                     |                     |                      |
| Operating temperature                     | -25°C~+50°C   |                     |                     |                     |                     |                     |                     |                     |                      |
| Humidity                                  | 0~90% , no cooling  |                     |                     |                     |                     |                     |                     |                     |                      |
| Altitude /m                               | ≤1000   |                     |                     |                     |                     |                     |                     |                     |                      |
| <b>Protection</b>                         |   |                     |                     |                     |                     |                     |                     |                     |                      |
| Protect function                          | Input lower voltage, input overvoltage protection; output overload protection,<br>output short circuit protection |                     |                     |                     |                     |                     |                     |                     |                      |
| <b>Dimension-mm/Weight--kg</b>            |   |                     |                     |                     |                     |                     |                     |                     |                      |
| ABCD definition                           |   |                     |                     |                     |                     |                     |                     |                     |                      |
| A. 82(W)*44(H)*300(D)---1U ---0.5/1/2KVA  |   |                     |                     |                     |                     |                     |                     |                     |                      |
| B. 482(W)*88(H)*335(D) ---2U---0.5/1/2KVA |   |                     |                     |                     |                     |                     |                     |                     |                      |
| C. 482(W)*88(H)*368(D) ---2U---3/4/5/6KVA |   |                     |                     |                     |                     |                     |                     |                     |                      |
| D. 482(W)*176(H)*440(D) ---2U---8/10KVA   |   |                     |                     |                     |                     |                     |                     |                     |                      |
| Rack Mount                                | AB  | AB                  | AB                  | C                   | C                   | C                   | C                   | D                   | D                    |
| Weight/Kg                                 | 4.8/6   | 5/6                 | 6/7                 | 12                  | 13                  | 14                  | 15                  | 20                  | 22                   |

Note: The rated output power with error 500VA ± 50W; 1-10KVA is ± 100W