

# Aspire AS



Aspire AS 5.5KW/7.5KW/11KW/15KW



Aspire AS 18.5KW/22KW

- Built-in MPPT solar charger
- Supports three-phase asynchronous motor depending on models
- Built-in full protection and self-diagnosis
- Soft start function prevents water hammer effect and extends system lifecycle
- Comprehensive LEDs and display screen for real-time system status
- Remote monitoring through RS-485
- Optional remote panel available

## Aspire AS Water Pump Solar Inverter Selection Guide

| MODEL                          | Aspire AS-5.5KW                                                                                                                                       | Aspire AS-7.5KW | Aspire AS-11KW | Aspire AS-15KW | Aspire AS-18.5KW | Aspire AS-22KW |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|----------------|------------------|----------------|
| RATED OUTPUT POWER             | 5500 W(7HP)                                                                                                                                           | 7500 W(10HP)    | 11000 W(15HP)  | 15000 W(20HP)  | 18500 W(25HP)    | 22000 W(30HP)  |
| PV INPUT (DC)                  |                                                                                                                                                       |                 |                |                |                  |                |
| Maximum DC Voltage             | 800 VDC                                                                                                                                               |                 |                |                |                  |                |
| Start-up Voltage               | 250 VDC                                                                                                                                               |                 |                |                |                  |                |
| Recommended MPPT Voltage Range | 500 VDC ~ 600VDC                                                                                                                                      |                 |                |                |                  |                |
| Number of MPP Trackers         | 1                                                                                                                                                     |                 |                |                |                  |                |
| AC INPUT                       |                                                                                                                                                       |                 |                |                |                  |                |
| Input Voltage                  | 3 x 380/400/415/440 VAC<br>(CAUTION:PV and AC input can not be connected at the same time!!!)                                                         |                 |                |                |                  |                |
| Input Frequency                | 50Hz                                                                                                                                                  |                 |                |                |                  |                |
| OUTPUT                         |                                                                                                                                                       |                 |                |                |                  |                |
| Nominal Voltage                | 3 x 380/400/415/440 VAC                                                                                                                               |                 |                |                |                  |                |
| Efficiency                     | > 97%                                                                                                                                                 |                 |                |                |                  |                |
| Nominal Output Current         | 13A                                                                                                                                                   | 17A             | 25A            | 32A            | 37A              | 45A            |
| Motor Type                     | Three-phase asynchronous motor                                                                                                                        |                 |                |                |                  |                |
| Frequency Precision            | ±0.2%                                                                                                                                                 |                 |                |                |                  |                |
| PROTECTION                     |                                                                                                                                                       |                 |                |                |                  |                |
| Full Protection                | Phase lost, dry pumping, motor locked, weak sunlight, over-voltage, under-voltage, over-current, surge, over-temperature and short circuit protection |                 |                |                |                  |                |
| PHYSICAL                       |                                                                                                                                                       |                 |                |                |                  |                |
| Dimension, D x W x H (mm)      | 160 x 187 x 238                                                                                                                                       |                 |                |                | 170 x 195 x 330  |                |
| Net Weight (kgs)               | 3.04                                                                                                                                                  | 3.12            | 3.5            | 4.8            | 5                | 5.2            |
| Type of Mechanical Protection  | IP20                                                                                                                                                  |                 |                |                |                  |                |
| INTERACE                       |                                                                                                                                                       |                 |                |                |                  |                |
| Communication Port             | RS-485                                                                                                                                                |                 |                |                |                  |                |
| ENVIRONMENT                    |                                                                                                                                                       |                 |                |                |                  |                |
| Humidity                       | < 95% RH (Non-condensing)                                                                                                                             |                 |                |                |                  |                |
| Operating Temperature          | -20°C~45°C at 100% full load, 46°C~60°C power derating                                                                                                |                 |                |                |                  |                |

Product specifications are subject to change without further notice.