

## ANDW Series Pure Sine Wave Inverter

Acsoon® ANDW series are easy-to-use solutions for delivering AC power from batteries or other DC source like solar power source and wind power source.

It provides clean low-distortion sine wave output at ideal powering sensitive electronics/instruments,electric equipments.

It integrates IGBT made by Mitsubishi, Siemens, and Infineon, and combines microprocessor and PLC control design together for quick response and higher reliability.

By-pass function is available. In the event of loss of AC input, the Inverter will automatically switch to your DC source in ZERO time .Or In the event of Inverter failure, the unit will BYPASS to AC Input.It can be factory set for AC or DC primary input operation mode.

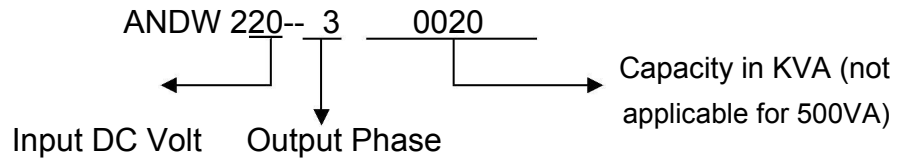
### Main Features

- Isolated output transformer, suit for any unbalance loads. Every single phase can be used independently
- EMC compatible,Low noise
- Thoroughly proven advanced SPWM and IGBT technology
- Galvanically isolated,low Harmonic Distortion
- Pure sine wave, sinusoidal output
- Variable frequency and voltage
- Display real-time data:voltage, current, frequency, power



## Models Selection

The Acsoon® ANDW series power supply model designation is shown below:



Acsoon® ANDW series power supply single units are available with the following capacities:

Single phase output: 500VA ~ 10KVA

Triple phase output: 500VA ~ 100KVA

## Specification

### ● Capacity

- ◇ 500VA, 1KVA to 100KVA

### ● Overload

- ◇ 110% 15Mins, 125% 30S

### ● Input

- ◇ Voltage: DC24V $\pm$ 4V, DC48V $\pm$ 4V, DC110V $\pm$ 15%, DC 220V $\pm$ 15% Or as per your specific requirement(select one individual voltage)
- ◇ By pass AC Voltage: 1 phase 120V/220V $\pm$ 20% or 3x220V/380V $\pm$ 20%
- ◇ By pass AC frequency: 40-70Hz

### ● Protection

- ◇ Over/under voltage,
- ◇ Over current, Over load, Over temperature
- ◇ Missing phase, Short circuit,
- ◇ Self diagnose and alarm
- ◇ Voltage difference between each phase  $\leq$  2V
- ◇ Additional output contactor (Option item)

### ● Display:

**● Output**

- ✧ Voltage: 1 phase 120V, 1 phase 220V,  
3x220V/380V, 3x240V/415V, 3x254V/440V,  
3x277V/480V Fixed (select one individual  
voltage)
- ✧ Frequency: 50Hz or 60Hz. 400Hz available
- ✧ Voltage Regulation: +/-1%
- ✧ Frequency Regulation: +/-0.01%
- ✧ Crest: 1.414 +/-0.1
- ✧ Distortion: THD < 3% @ linear load
- ✧ Phase Shift:  
120° +/- 1° (No Load/ Balance Load)  
120° +/- 2° (33% unbalance Load)  
120° +/- 3° (100% unbalance Load)

- ✧ LED: Voltage, Current, frequency, Power/PF

**● working condition**

- ✧ Temperature: -10 to 45°C
- ✧ Humidity: 0-95%
- ✧ Noise: < 65dB within 1 meter
- ✧ IP20/IP32/IP54
- ✧ Altitude < 1800m

**● Reliability**

- ✧ Mean Time Between Failure (MTBF) 50,000H
- ✧ Mean time to restoration (MTTR) < 30 min

**● Standards**

- ✧ EN61010
- ✧ IEC 62321
- ✧ ISO 6858
- ✧ EN61326
- ✧ EN62040-1-1
- ✧ GJB572