

# TITAN PLUS

6 kVA ~ 20 kVA (3:1)

PF 0.9



## Features

- High frequency and true double-conversion
- DSP digital control technology
- Wide input voltage range (110 V ~ 300 V)
- Output power factor 0.9
- Optimized battery configuration: 192 V / 240 V
- Cold start
- Auto sensing frequency
- ECO mode operation for energy saving
- 50/60Hz frequency conversion mode
- Selectable output voltage via LCD
- Selectable battery shutdown voltage (EOD) via LCD
- Selectable input mode via LCD (3 : 1 or 1 : 1)
- Power-on self test
- Advanced battery management (ABM)
- Short circuit and overload protection
- Automatic charging in OFF mode
- Fan speed auto control when temperature varies
- Standard RS232 / USB communication port
- Standard emergency power off (EPO)
- Optional RS485 / SNMP / AS400 communication port
- Optional extension battery bank
- Optional battery temperature compensation
- Optional built-in isolation transformer
- Optional manual bypass
- Optional N+X redundancy parallel

## Rear Panel

1. AC Input
2. DC Input
3. Outlet
4. Fan
5. RS232
6. USB
7. EPO
8. Manual Bypass (optional)
9. SNMP/AS400 (optional)
10. Breaker
11. Parallel Card (optional)
12. BAT\_NTC (optional)



6 / 10 KS

15 / 20 KH

6 / 10 KH

## Specifications

| MODEL                                | EA906II                                                                                                                          | EA9010II       | EA9015II            | EA9020II       |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|----------------|
| Capacity                             | 6 kVA / 5.4 kW                                                                                                                   | 10 kVA / 9 kW  | 15 kVA / 13.5 kW    | 20 kVA / 18 kW |
| INPUT                                |                                                                                                                                  |                |                     |                |
| Rated voltage                        | 3:1: 360 V / 380 V / 400V / 415 Vac;<br>1:1: 208 V / 220 V / 230 V / 240 Vac (settable via LCD)                                  |                |                     |                |
| Voltage range                        | 3:1: 190 ~ 277 Vac (derating 50%), 277 ~ 520 Vac (no derating);<br>1:1:110 ~ 160 Vac (derating 50%), 160 ~ 300 Vac (no derating) |                |                     |                |
| Frequency                            | 40 ~ 70 Hz (auto-sense)                                                                                                          |                |                     |                |
| Power factor                         | 3:1 ≥ 0.95; 1:1 ≥ 0.99                                                                                                           |                |                     |                |
| BYPASS                               |                                                                                                                                  |                |                     |                |
| Voltage range                        | - 40% ~ + 15% (settable)                                                                                                         |                |                     |                |
| Frequency                            | 50 / 60 Hz ± 5 Hz                                                                                                                |                |                     |                |
| OUTPUT                               |                                                                                                                                  |                |                     |                |
| Voltage                              | 208 V / 220 V / 230 V / 240 Vac (settable via LCD)                                                                               |                |                     |                |
| Voltage regulation                   | ±1%                                                                                                                              |                |                     |                |
| Frequency                            | Synchronized with utility in mains mode; 50 / 60 ± 0.2 Hz in battery mode                                                        |                |                     |                |
| Waveform                             | Sinusoidal                                                                                                                       |                |                     |                |
| Crest factor                         | 3:1                                                                                                                              |                |                     |                |
| Harmonic distortion                  | ≤ 2% (linear load); ≤ 5% (non-linear load)                                                                                       |                |                     |                |
| Transfer time                        | 0 ms                                                                                                                             |                |                     |                |
| Overload capability                  | 105% ~ 125%: transfer to bypass in 3 min;<br>125% ~ 150%: transfer to bypass in 30 s;<br>> 150%: transfer to bypass in 0.5 s     |                |                     |                |
| EFFICIENCY                           |                                                                                                                                  |                |                     |                |
| Mains mode                           | ≥ 92%                                                                                                                            |                |                     |                |
| Battery mode                         | ≥ 91%                                                                                                                            |                |                     |                |
| ECO mode                             | ≥ 98%                                                                                                                            |                |                     |                |
| BATTERIES                            |                                                                                                                                  |                |                     |                |
| DC voltage                           | 192 Vdc / 240 Vdc                                                                                                                |                |                     |                |
| Inbuilt battery of standard model    | 16 / 20 × 7 Ah                                                                                                                   | 16 / 20 × 9 Ah | /                   |                |
| Charging current                     | Standard model                                                                                                                   | 1 A            |                     | /              |
|                                      | Long time model                                                                                                                  | 7 A            |                     |                |
| Recharge time                        | 8 h                                                                                                                              |                |                     |                |
| ALARMS                               |                                                                                                                                  |                |                     |                |
| Utility failure                      | 4 s per beep                                                                                                                     |                |                     |                |
| Low battery                          | 1 s per beep                                                                                                                     |                |                     |                |
| Overload                             | 1 s twice beep                                                                                                                   |                |                     |                |
| UPS fault                            | Long beep                                                                                                                        |                |                     |                |
| OTHERS                               |                                                                                                                                  |                |                     |                |
| Communications                       | RS232 / USB (standard), RS485 / dry contacts / SNMP (optional)                                                                   |                |                     |                |
| Humidity                             | 20 ~ 90% RH @ 0 ~ 40°C (non-condensing)                                                                                          |                |                     |                |
| Noise level                          | ≤ 58 dB (1 m)                                                                                                                    |                |                     | ≤ 60 dB (1 m)  |
| Dimensions (W × D × H) (mm)          | 262 × 580 × 455 (H), 262 × 580 × 732 (S)                                                                                         |                | 262 × 580 × 628 (H) |                |
| Packaged dimensions (W × D × H) (mm) | 355 × 682 × 615 (H), 359 × 687 × 937 (S)                                                                                         |                | 359 × 687 × 832 (H) |                |
| Net weight (kg)                      | 25.0 (H), 73.0 (S)                                                                                                               |                | 38.5 (H)            | 39.0 (H)       |
| Gross weight (kg)                    | 28.5 (H), 82.5 (S)                                                                                                               |                | 47.0 (H)            | 47.5 (H)       |

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- 3 : 1 means three-phase input and single-phase output mode; 1 : 1 means single-phase input and single-phase output mode.
- S means standard model, H means long time model.

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.