

# 3P Power

Passion **P**rofession **P**erfection



# PRODUCT CATALOGUE

Excellence Compact Rack Series AC UPS

# Excellence Compact Rack Series



## Excellence Compact Rack Series ECUR UPS are suitable for both Commercial and environment



\* Industrial application such as Process and Control System, Instrument and Measurement, Monitoring and Security



\* Infrastructures application such as Hospital, Airport, Semiconductor, Water Treatment, Building and Traffic Monitoring



\* Energy industry application such as Oil & Gas, Petrochemicals, Power transmission and Distributions



\* Military application such as Security and Monitoring

- **True online double conversion with DSP control**

Double isolation between input/output, and bypass is applied to totally isolate power line noise, spikes and transients. A Digital Signal Processor (DSP) control provides an improved solution with high performance.

- **Robust electrical performance to prevent damage from top and bottom connections**

This UPS is designed to accept wide input voltage and frequency range to cope with the worst utility conditions. It can eliminate harmful distortion from utility power and withstand all kinds of severe impacts from various loads. It's capable to support heavy duty equipment, production equipment and DCS (Distributed Control System) system.

- **Colourful Multifunctional Panel**

The colorful HMI (Human Machine Interface) panel allows easy and humanized operation of the UPS. It gives access to the most important parameters: status and alarms, control commands, input, output, battery measurements (power, current, voltage, frequency and temperature) and settings. The compact series' diagnostics system includes events logging up to 100 messages, recording UPS running time and critical memories.

- **Eco Function**

Unique energy efficiency design under good power condition, UPS can work in ECO mode for 98% efficiency, green and energy saving.



- **Flexible battery configuration adapts different applications**

The number of batteries can be adjusted flexibly according to different power demands.

- **Accepts dual-mains inputs**

Excellent UPS series is allowed to connect two separate power inputs to increase operational reliability.

- **Fully coating PCBAs to withstand harsh environment**

All PCBAs are coated for anti-moisture, anti-electric leakage, anti-dust and anticorrosion. Its robust design is suitable for harsh environment with high temperature, high humidity, dense dust, salt or fierce vibration.



- **Maximum Safety Features**

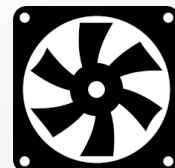
The backfeed protection device prevents any voltage backfeed in the upstream distribution board, thus ensuring the safety of the maintenance personnel.

- **Easy integration into existing electrical networks or generator**

During wiring connection, Excellent Series can be accessible either from top or from bottom under different environmental condition. Besides, this UPS is fully compatible with generator.

- **Fan Speed Control**

Intelligent fan speed control, with 4 levels varying according to load and temperature.



# Excellence Compact Rack Series

## Technical Specification - 1 Phase in / 1 Phase out

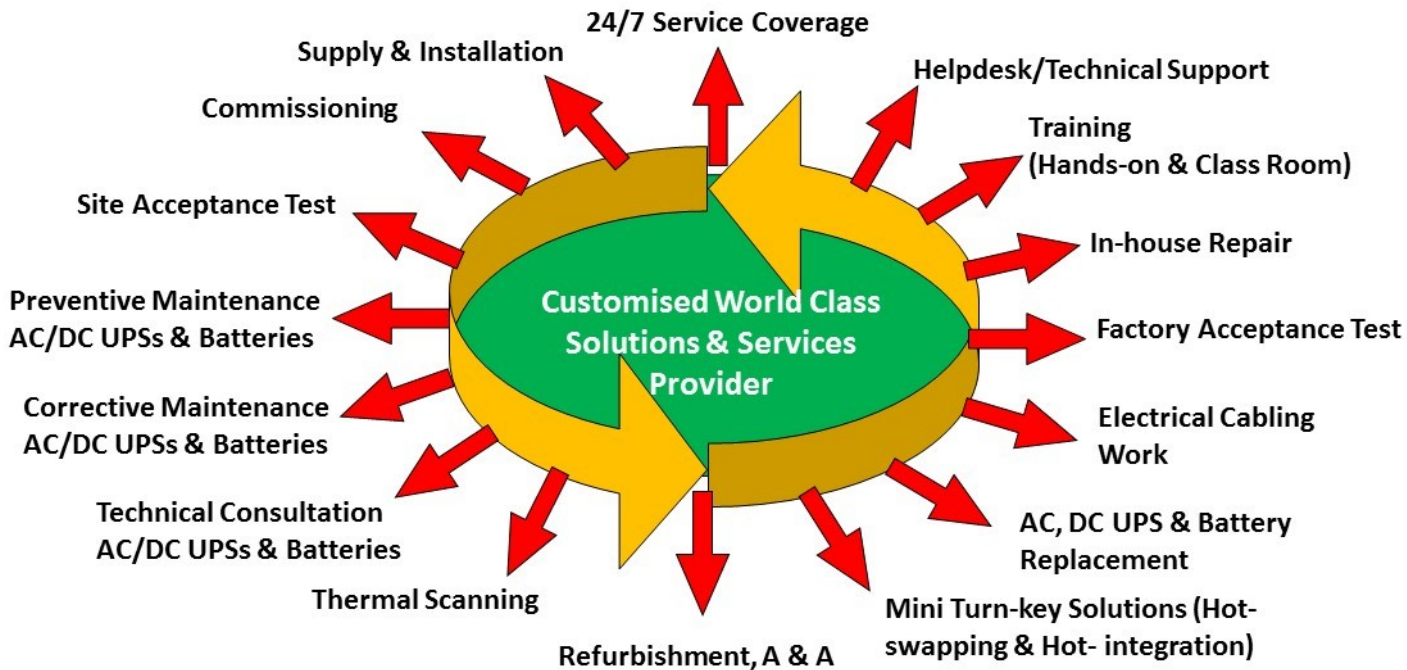
| MODEL                |                                       | ECUR 1101                       | ECUR 1102   | ECUR 1103                                    |  |
|----------------------|---------------------------------------|---------------------------------|---|--|--|
| CAPACITY in KVA / kW |                                       | 1kVA / 0.8kW                    | 2kVA / 1.8kW  | 3kVA / 2.7kW                                 |  |
| INPUT                | Voltage                               | Low Transfer                    | L-N: 176VAC ± 3% @ 100% Load; 130 VAC ± 3% @ 50% Load<br>Or 85VAC ± 3% (Ph-N) @ 100% Load, 65VAC ± 3% (Ph-N) at 50% Load                        |  |  |
|                      |                                       | Low Back                        | L-N: 188VAC ± 3% @ 100% Load, 142VAC ± 3% @ 50% Load<br>Or 95VAC (Ph-N) at 100% Load, 75VAC (Ph-N) at 50% Load                                  |  |  |
|                      |                                       | High Transfer                   | L-N: 286VAC ± 3% Or 155V ± 3%   |  |  |
|                      |                                       | High Back                       | L-N: 270VAC ± 3% Or 140VAC ± 3%   |  |  |
|                      | Frequency Range                       |                                 | 45-55Hz at 50Hz, 55-65Hz at 60Hz (Automatic Detection)  |  |  |
|                      | Phase                                 |                                 | 1:1 Phase, L+N+G  |  |  |
|                      | Current THDi                          |                                 | < 6% (100% Non-linear Load)   |  |  |
|                      | Power Factor                          |                                 | ≥ 0.99  |  |  |
|                      | Generate Input                        |                                 | Support   |  |  |
|                      | Recommended Breaker                   |                                 | 7A  | 16A  | 25A  |
|                      | ECO Range                             |                                 | 200 - 240VAC Or 108 - 132VAC  |  |  |
|                      | Bypass Voltage Range                  |                                 | 186 - 252VAC Or 102 - 138VAC  |  |  |
|                      | Current Harmonic                      |                                 | ≤ 3% (100% Non-linear Load)   |  |  |
| OUTPUT               | Voltage                               |                                 | 208 / 220 / 230 / 240VAC or 110 / 120 / 127VAC  |  |  |
|                      | Power Factor                          |                                 | 0.9   |  |  |
|                      | Voltage Regulation                    |                                 | ± 2%  |  |  |
|                      | Frequency (Static Bypass Mode)        |                                 | 46 - 54Hz at 50Hz, 56 - 64Hz at 60Hz  |  |  |
|                      | Frequency (Battery Mode)              |                                 | 50 / 60Hz ± 0.02Hz  |  |  |
|                      | Crest Factor                          |                                 | 3:1   |  |  |
|                      | Harmonic Distortion                   |                                 | ≤ 3% THD (Linear Load)<br>≤ 5% THD (Non-linear Load)  |  |  |
|                      | Output Waveform                       |                                 | Pure Sine Wave  |  |  |
|                      | Outlet                                |                                 | Universal Female Sockets  |  |  |
|                      | Overload Capacity                     |                                 | 105% < Load < 125% for 1 mins, 125% < Load < 150% for 30sec   |  |  |
|                      | AC Mode                               |                                 | Full Load ≥ 90%   |  |  |
|                      | Battery Mode                          |                                 | Full Load ≥ 90%   |  |  |
|                      | ECO Mode                              |                                 | Full Load ≥ 95%   |  |  |
| BATTERY              | Number of Battery                     |                                 | 2 Blocks Built-in / 3 Blocks Long-run   | 6 Blocks Built-in / 8 Blocks Long-run        |  |
|                      | Battery Type                          |                                 | Sealed Lead Acid Maintenance Free, Standard model: 12VDC 7Ah or 9Ah Built-in<br>Long-run Unit: Optional External Battery Capacity to 12VDC 60Ah |  |  |
|                      | Backup Time                           |                                 | Standard Unit: 5 - 12mins<br>Long-run Unit: External Battery  | Maximum 90mins with<br>External Battery Pack | Maximum 60mins with<br>External Battery Pack |
|                      | Recharge Time to 90%                  |                                 | 5 Hours   | 5 Hours                                      | 5 Hours                                      |
|                      | Charge Current (Standard Unit)        |                                 | 1A  | NA   | NA   |
|                      | Charge Current (Long-run Unit)        |                                 | 6A  | 6A   | 6A   |
|                      | Rated Battery Voltage                 |                                 | 24VDC Built-in / 36VDC Long-run   | 72VDC Built-in / 96VDC Long-run              |  |
|                      | Protection                            |                                 | Over Voltage, Over Current, Low Voltage   |  |  |
| TRANSFER TIME        | Mains ↔ Battery                       |                                 | 0ms   |  |  |
|                      | Mains ↔ Bypass                        |                                 | 0ms   |  |  |
| INDICATOR            | LCD Version (with LED)                |                                 | Load, Battery, Input, Output, Operating Mode Information etc.   |  |  |
| AUDIBLE ALARM        | Battery Mode                          |                                 | Sounding Every Four Seconds   |  |  |
|                      | Low Frequency                         |                                 | Sounding Every Second   |  |  |
|                      | Overload                              |                                 | Sounding Twice Every Second   |  |  |
|                      | Fault                                 |                                 | Continuously Sounding   |  |  |
| PHYSICAL             | Unit Dimension UPS →                  |                                 | 485 * 480 * 88 (2U)   | 485 * 480 * 88 (2U)                          | 485 * 480 * 88 (2U)                          |
|                      | (D * W * H)mm Battery Pack →          |                                 | 485 * 480 * 88 (2U)   | 485 * 480 * 88 (2U)                          | 485 * 480 * 88 (2U)                          |
|                      | Packing Dimension UPS →               |                                 | 600 * 580 * 300 For 2 units   | 600 * 580 * 300 For 2 units                  | 600 * 580 * 300 For 2 units                  |
|                      | (D * W * H)mm Battery Pack →          |                                 | 600 * 580 * 200   | 600 * 580 * 200                              | 600 * 580 * 200                              |
|                      | Standard Unit Net/Gross (kg)          |                                 | 32 / 35   | 34 / 36                                      | 37 / 39                                      |
|                      | Long-run Unit Net/Gross (kg)          |                                 | 16 / 18   | 18 / 20                                      | 20 / 23                                      |
|                      | Operating Environment                 |                                 | 0-40°C  |  |  |
| Relative Humidity    |                                       | 0-90% (non-condensing)          |   |  |  |
| Altitude             |                                       | < 1500m, when > 1500m, derating |   |  |  |
| Noise Level          |                                       | < 55db at 1 Meter               |   |  |  |
| INTERFACE            | Standard: USB and AS400, Option: SNMP |                                 |   |  |  |

# Excellence Compact Rack Series

## Technical Specification - 1 Phase in / 1 Phase out

| MODEL                          |  | ECUR 1106  | ECUR 1110  |
|--------------------------------|--|--|--|
| CAPACITY in kVA / kW           |  | 6kVA / 5.4kW   | 10kVA / 9.0kW  |
| INPUT                          | Voltage  | Low Transfer   | L-N: 176VAC ± 3% @ 100% Load; 130 VAC ± 3% @ 50% Load<br>Or 85VAC ± 3% (Ph-N) @ 100% Load, 65VAC ± 3% (Ph-N) at 50% Load |
|                                |  | Low Back   | L-N: 188VAC ± 3% @ 100% Load, 142VAC ± 3% @ 50% Load<br>Or 95VAC (Ph-N) at 100% Load, 75VAC (Ph-N) at 50% Load           |
|                                |  | High Transfer  | L-N: 286VAC ± 3%   |
|                                |  | High Back  | L-N: 270VAC ± 3%   |
|                                | Frequency Range  | 40Hz-70Hz, Tracking Range 46-54Hz at 50Hz, 56-64Hz at 60Hz   |  |
|                                | Phase  | 1:1 Phase, L+N+G   |  |
|                                | Current THDi   | < 6% (100% Non-linear Load)  |  |
|                                | Power Factor   | ≥ 0.99 at 100% Load  |  |
|                                | Generate Input   | Support  |  |
|                                | Recommended Breaker  | 32A  | 63A  |
|                                | OUTPUT   | ECO Range  | 200 - 240VAC Or 108 - 132VAC   |
| Bypass Voltage Range           |  | 186 - 252VAC Or 102 - 138VAC   |  |
| Current Harmonic               |  | ≤ 3% (100% Non-linear Load)  |  |
| Voltage                        |  | 208 / 220 / 230 / 240VAC   |  |
| Power Factor                   |  | 0.9  |  |
| Voltage Regulation             |  | ± 1%   |  |
| Frequency (Static Bypass Mode) |  | 46 - 54Hz at 50Hz, 56 - 64Hz at 60Hz   |  |
| Frequency (Battery Mode)       |  | 50 / 60Hz ± 0.1Hz  |  |
| Crest Factor                   |  | 3:1  |  |
| Harmonic Distortion            |  | ≤ 3% THD (Linear Load)<br>≤ 6% THD (Non-linear Load)   |  |
| Output Waveform                |  | Pure Sine Wave   |  |
| Outlet                         | Universal Female Sockets   |  |  |
| Overload Capacity              | 105% < Load < 125% for 1min, 125% < Load < 150% for 30sec                                  |  |  |
| EFFICIENCY                     | AC Mode  | 92% at Full Load   |  |
|                                | Battery Mode   | 90% at Battery Mode  |  |
| BATTERY                        | Number of Battery  | 16 Blocks per string   |  |
|                                | Battery Type   | Sealed Lead Acid Maintenance Free, Standard model: 12VDC 7Ah for 6kVA or 9Ah for 10kVA<br>Long-run Unit: Optional External Battery Capacity 12VDC 60Ah |  |
|                                | Backup Time  | Maximum 30mins with External Battery Pack  | Maximum 15mins with External Battery Pack  |
|                                | Recharge Time to 90%   | 5 Hours  | 5 Hours  |
|                                | Charge Current (Standard Unit)   | 1A   | 1A   |
|                                | Charge Current (Long-run Unit)   | 1A Built-in, 6A Long-run and > 6A as Option  | 1A Built-in, 6A Long-run and > 6A as Option  |
| TRANSFER TIME                  | Mains ↔ Battery  | 0ms  |  |
|                                | Mains ↔ Bypass   | 0ms  |  |
| INDICATOR                      | LCD Panel  | Load, Battery, Input, Output, Operating Mode Information etc.  |  |
| AUDIBLE ALARM                  | Battery Mode   | Sounding Every Four Seconds (Can be muted)   |  |
|                                | Low Battery  | Sounding Every Second  |  |
|                                | Overload   | Sounding Every Second  |  |
|                                | Fault  | Continuously Sounding  |  |
| PHYSICAL                       | Unit Dimension UPS →   | 600 * 485 * 130 (3U)   | 660 * 485 * 130 (3U)   |
|                                | (D * W * H)mm Battery Pack →   | 580 * 485 * 130 (3U)   | 580 * 485 * 130 (3U)   |
|                                | Packing Dimension UPS →  | 640 * 540 * 166  | 700 * 540 * 166  |
|                                | (D * W * H)mm Battery Pack →   | 610 * 468 * 166  | 610 * 468 * 166  |
|                                | Std Unit Net/Gross (kg) UPS →  | 22/25  | 27 /30   |
|                                | Battery Pack →   | 55/58  | 55 /58   |
|                                | Long-run Unit Net/Gross (kg)   | 22/25  | 27/30  |
|                                | Operating Environment  | 0-40°C   |  |
|                                | Relative Humidity  | 0-90% (non-condensing)   |  |
| Altitude                       | < 1500m, when > 1500m, de-rating   |  |  |
| Noise Level                    | < 55db at 1 Meter  | < 58db at 1 Meter  |  |
| INTERFACE                      | Standard: Smart RS232/USB, Option: SNMP Power Management From SNMP Manager and Web Browser |  |  |
| PARALLEL TECHNOLOGY            | Advanced N+1 Redundancy Parallel Technology with Maximum 6 Units                           |  |  |

## 3P Power One Stop Solution



# 3P Power

Passion Profession Perfection

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### Offices

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