

# 3P Power

Passion Profession Perfection



## PRODUCT CATALOGUE

Excellence ECUS Series Semi Industrial AC UPS

# Excellence ECUS Series Semi Industrial AC UPS

## FEATURES

### • ADAPTABILITY

Designed to accept a wide range of input voltages and frequency range, this AC UPS is capable 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 is fully capable to support heavy duty equipment, production equipment and DCS (Distributed Control System) system.

### • NEW EDGE DESIGN TOPOLOGY

The true online double conversion with a Digital Signal Processor (DSP) control which provides an improved solution with high performance Double isolation between input and output with bypass applied to allow total isolation between power line noises, spikes & transients

### • DUAL-MAINS INPUT

Excellence UPS series allow user to connect TWO separate power inputs to increase operational reliability

### • FAN SPEED CONTROL

Designed Intelligent 4-levels fan speed control, varying according to load and temperature

### • DURABILITY

All PCBAs are fully coated for anti-moisture, anti-electric leakage, anti-dust and anti-corrosion. This robust design is suitable to cope with harsh environments such as high temperature, high humidity, dense dust, salt or fierce vibration



### • FLEXIBLE BATTERY CONFIGURATION

The number of batteries can be adjusted flexibly in accordance to the different power demands

### • ECO FUNCTIONALITY

Featuring our energy efficiency design under good power condition, UPS can work in ECO mode for up to 98% efficiency, green and energy saving

### • MAXIMUM SAFETY FEATURES

Safety features have always been the top priority for our equipment. Our UPS is designed with back feed protection device which prevents any voltage back feed in the upstream distribution board, ensuring the safety of maintenance personnel

### • COLORFUL MULTIFUNCTIONAL HMI

The colorful touch screen HMI (Human Machine Interface) panel provides an easy and humanized operation of the UPS. It allows user to access the important functions and parameter setting such as system status and alarms, control commands, battery measurements (power, current, voltage, frequency & temperature) and system settings. The compact series' diagnostics system includes event logs up to 100 lines, recording UPS running time and critical memories

## SUITABLE FOR INDUSTRIAL & COMMERCIAL APPLICATIONS



\* Industrial application such as Process and Control system, Industrial Machinery, Instrument and Measurement, Process monitoring, Control 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



\* Security and Monitoring application

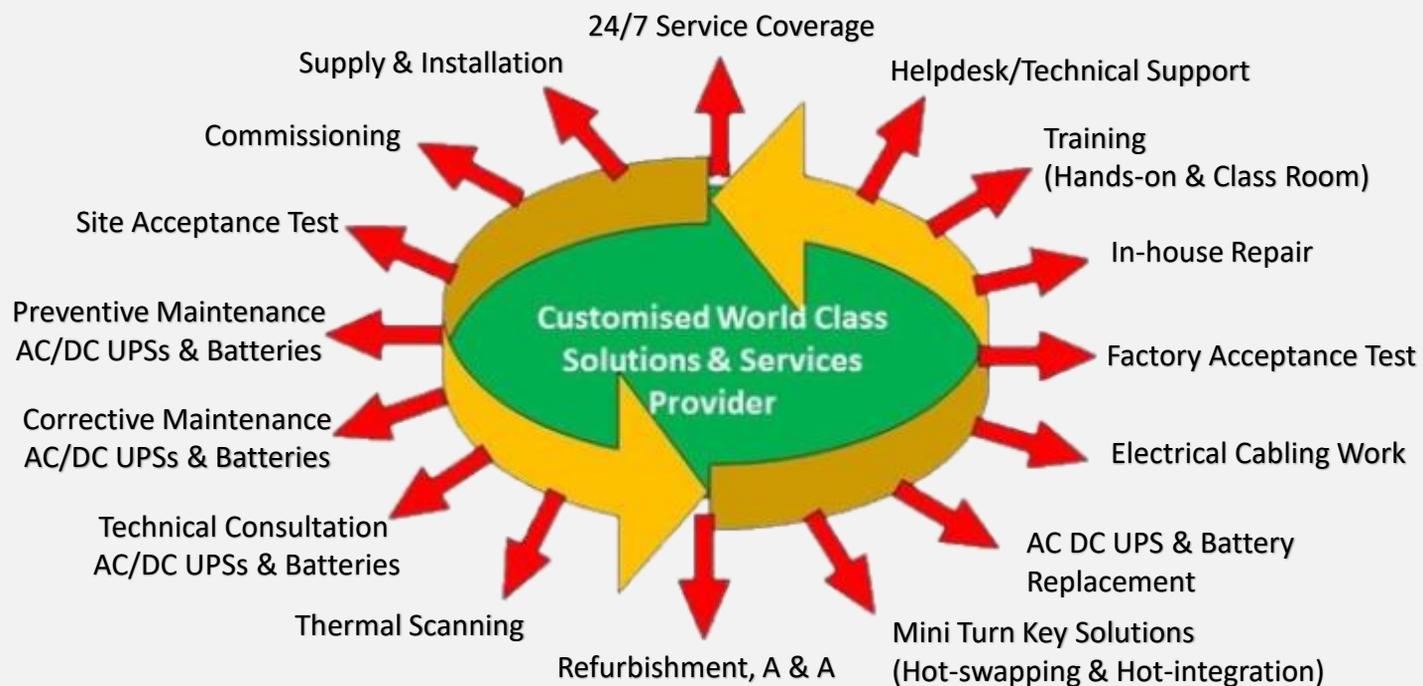
# Excellence ECUS Series Semi Industrial AC UPS

MODEL	ECUS33010	ECUS33020	ECUS33030	ECUS33040	ECUS33060	ECUS33080
<b>CAPACITY in kVA/kW</b>	10kVA/10kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW	80kVA/80kW
<b>SYSTEM PARALLEL CAPABILITY</b>	4 UPSs					
<b>SYSTEM INPUT</b>						
Phase	3 / 3 Phase (3W+N)					
Nominal Voltage	380/400/415Vac					
Voltage Range	-30% ~ +20%					
Input PF	≥ 0.99 @ 100% Load					
Input frequency	40Hz – 70Hz					
Harmonic Distortion THDi	< 4% at Full Linear Load					
<b>BYPASS</b>						
Nominal Voltage	380/400/415Vac (3W+N)					
Voltage Range	-10% ~ +10%					
Frequency	46 ~ 54Hz or 56 ~ 64Hz @ Line mode, 50 / 60Hz ± 0.1Hz @ Battery mode					
Overload Capacity	> 150% for 200ms					
<b>BATTERY CHARGER</b>						
Number of VRLA 12Vdc Blocks	10+10	Selectable 32 (16+16) ~ 40 (20+20)				
Charging Current Settings	1A to 12A Adjustable		2A to 18A Adjustable			
Charging Voltage per cell	2.23V ~ 2.27V for Float Charge, 2.35V for Boost Charge					
Temperature Compensation	Built-in					
<b>SYSTEM OUTPUT</b>						
Output PF	1.00					
Output Voltage & Phase	380/400/415Vac & 3 Phase (3W+N)					
Frequency	46 ~ 54Hz or 56 ~ 64Hz @ Line mode, 50 / 60Hz ± 0.1Hz @ Battery mode					
Crest Factor	3:01					
Waveform Distortion	Less than 1% @ Linear load, Less than 3% @ Non-linear load					
Over Load	≤ 110% for 1 Hr, 111 ~ 125% for 10 mins, 126% ~ 150% for 1 min; > 150% for 200ms					
Efficiency	95% @ AC Mode					
	98% @ Eco Mode					
	94% @ Battery Mode					
Transfer Time	0ms @ AC and Battery					
	≤ 4ms @ Bypass and Inverter					
<b>INDICATOR</b>						
HMI Touch LCD Screen	Comprehensive Information and Events					
<b>MANAGEMENT</b>						
Standard	Smart RS-232, USB Supports Windows® Family, Linux and MAC					
Optional	Dry Contact, MODBUS, SNMP Power Management and Web Browser					
<b>ENVIROMENT</b>						
Operation Temperature	0-40°C					
Operation Humidity	< 95% and non-condensing					
Altitude	< 1000m for Nominal Power, Derated 1% per 100m					
<b>PHYSICAL</b>						
Net Weight (KG)	27	30	50	60	90	160
Unit Dimension (D * W * H) in mm	630 x 250 x 826		815 x 300 x 1000 & 1000 x 430 x 1200			
<b>STANDARDS</b>						
Safety	IEC/EN62040-1					
EMC	IEC/EN62040-2 Category C3					

# Excellence ECUS Series Semi Industrial AC UPS

MODEL	ECUS33100	ECUS33120	ECUS33180	ECUS33200	ECUS33240	ECUS33300
<b>CAPACITY in kVA/kW</b>	100kVA/100kW	120kVA/120kW	180kVA/180kW	200kVA/200kW	240kVA/240kW	300kVA/300kW
<b>SYSTEM PARALLEL CAPABILITY</b>	4 UPSs				2 UPSs	
<b>SYSTEM INPUT</b>						
Phase	3 / 3 Phase (3W+N)					
Nominal Voltage	380/400/415Vac					
Voltage Range	-30% ~ +20%					
Input PF	≥ 0.99 @ 100% Load					
Input frequency	40Hz – 70Hz					
Harmonic Distortion THDi	< 4% at Full Linear Load					
<b>BYPASS</b>						
Nominal Voltage	380/400/415Vac (3W+N)					
Voltage Range	-10% ~ +10%					
Frequency	46 ~ 54Hz or 56 ~ 64Hz @ Line mode, 50 / 60Hz ± 0.1Hz @ Battery mode					
Overload Capacity	> 150% for 200ms					
<b>BATTERY CHARGER</b>						
Number of VRLA 12Vdc Blocks	Selectable 32 (16+16) ~ 40 (20+20)					
Charging Current Settings	24	36	54	54	72	90
Charging Voltage per cell	2.23V ~ 2.27V for Float Charge, 2.35V for Boost Charge					
Temperature Compensation	Built-in					
<b>SYSTEM OUTPUT</b>						
Output PF	1.00					
Output Voltage & Phase	380/400/415Vac & 3 Phase (3W+N)					
Frequency	46 ~ 54Hz or 56 ~ 64Hz @ Line mode, 50 / 60Hz ± 0.1Hz @ Battery mode					
Crest Factor	3:01					
Waveform Distortion	Less than 1% @ Linear load, Less than 3% @ Non-linear load					
Over Load	≤ 110% for 1 Hr, 111 ~ 125% for 10 mins, 126% ~ 150% for 1 min; > 150% for 200ms					
Efficiency	95% @ AC Mode					
	98% @ Eco Mode					
	94% @ Battery Mode					
Transfer Time	0ms @ AC and Battery					
	≤ 4ms @ Bypass and Inverter					
<b>INDICATOR</b>						
HMI Touch LCD Screen	Comprehensive Information and Events					
<b>MANAGEMENT</b>						
Standard	Smart RS-232, USB Supports Windows® Family, Linux and MAC					
Optional	Dry Contact, MODBUS, SNMP Power Management and Web Browser					
<b>ENVIROMENT</b>						
Operation Temperature	0-40°C					
Operation Humidity	< 95% and non-condensing					
Altitude	< 1000m for Nominal Power, Derated 1% per 100m					
<b>PHYSICAL</b>						
Net Weight (KG)	170	200	250	280	360	400
Unit Dimension (D * W * H) in mm	1000 x 430 x 1200		1000 x 600 x 1200		1000 x 600 x 1475	
<b>STANDARDS</b>						
Safety	IEC/EN62040-1					
EMC	IEC/EN62040-2 Category C3					

## 3P Power One Stop Solution



**3P**Power

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