

# 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 7" 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



\* Military application such as Security and Monitoring

# Excellence ECUS Series Semi Industrial AC UPS

MODEL	ECUS33060	ECUS33080	ECUS33100	ECUS33120
<b>CAPACITY in kVA/kW</b>	60kVA/60kW	80kVA/80kW	100kVA/100kW	120kVA/120kW
<b>SYSTEM PARALLEL CAPABILITY</b>	4 Systems with Common Battery Bank			
<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	18A	24A	24A	36A
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>				
Smart RS-232 / USB	Supports Windows® Family, Linux and MAC			
Optional SNMP	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)	95	170	170	170
Unit Dimension (D * W * H) in mm	1000 * 320 * 800	1000 * 430 * 1200	1000 * 430 * 1200	1000 * 430 * 1200
<b>STANDARDS</b>				
Safety	IEC/EN62040-1			
EMC	IEC/EN62040-2 Category C3			

# Excellence ECUS Series Semi Industrial AC UPS

MODEL	ECUS33180	ECUS33200	ECUS33240	ECUS33300
<b>CAPACITY in kVA/kW</b>	180kVA/180kW	200kVA/200kW	240kVA/240kW	300kVA/300kW
<b>SYSTEM PARALLEL CAPABILITY</b>	4 with Common Battery Bank		2 with Common Battery bank	
<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	54A	54A	72A	90A
Charging Voltage per cell	2.23V ~ 2.27V for Float Charge, 2.35V for Boost Charge			
Battery 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>				
Smart RS-232 / USB	Supports Windows® Family, Linux and MAC			
Optional SNMP	SNMP Power Management and Wed 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)	250	250	360	400
Unit Dimension (D * W * H) in mm	1000 * 600 * 800	1000 * 600 * 1200	1000 * 600 * 1475	1000 * 600 * 1475
<b>STANDARDS</b>				
Safety	IEC/EN62040-1			
EMC	IEC/EN62040-2 Category C3			

## 3P Power One Stop Solution



**3P**Power

Passion Profession Perfection

**3P POWER PTE. LTD.**

1 Genting Link, #04-02,  
Perfect One Building,  
Singapore 349518

T +65 6743 1006 & +65 6019 0772

E [enquiry@3ppower.com](mailto:enquiry@3ppower.com)

W [www.3ppower.com](http://www.3ppower.com)