

# 3P Power

Passion Profession Perfection



## PRODUCT CATALOGUE

Excellence ECU Series Semi Industrial AC UPS

# Excellence Compact Rack Series 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 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

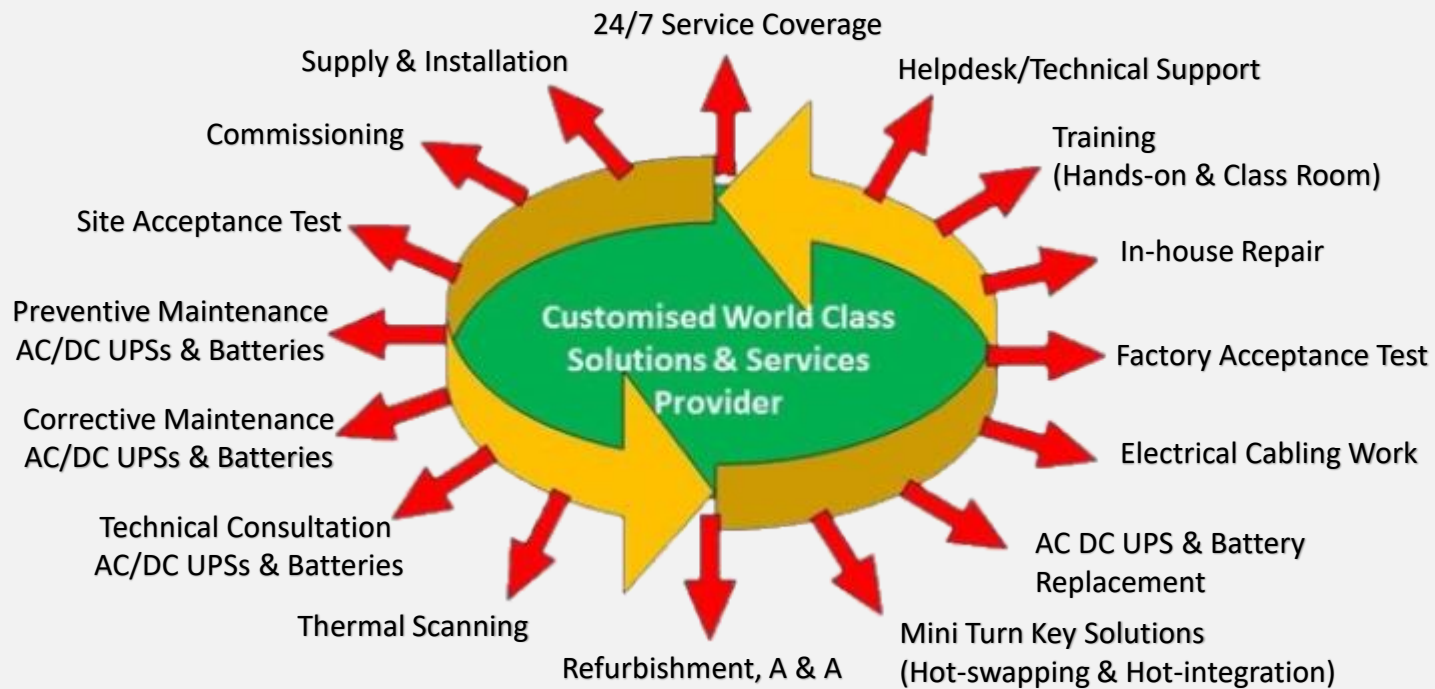
# Excellence ECU Series Semi Industrial AC UPS

MODEL		ECU1101	ECU1102	ECU1103
CAPACITY in kVA / kW		1kVA / 0.8kW	2kVA / 1.8kW	3kVA / 2.7kW
INPUT	Voltage	Low Transfer	L-N: 176Vac ± 3% @ 100% load, 130Vac ± 3% @ 50% load	
		Low Back	L-N: 188Vac ± 3% @ 100% load, 142Vac ± 3% @ 50% load	
		High Transfer	L-N: 276Vac ± 3%	
		High Back	L-N: 266Vac ± 3%	
	Frequency Range	40 - 70Hz		
	Frequency SYN	46 - 54Hz at 50Hz, 56 - 64Hz at 60Hz		
	Phase	1:1 phase, L+N+G		
	Current THDi	< 5% @ 100% non-linear load		
	Power Factor	≥ 0.99		
	Generate Input	Support		
Current	4A	7.8A	11.7A	
OUTPUT	Voltage	208 / 220 / 230 / 240Vac or 110 / 120 / 127		
	Power Factor	0.9		
	Voltage Regulation	±1-2%		
	Frequency-Bypass Mode	46 - 54Hz at 50Hz, 56 - 64Hz at 60Hz		
	Frequency -Batt. Mode	50 / 60Hz ± 0.02Hz		
	Crest Factor	3:1		
	Harmonic Distortion	≤ 3% THD @ Linear Load ≤ 5% THD @ Non-linear Load		
	Output Waveform	Pure Sine Wave		
	Outlet	Universal Sockets x 2	Terminals	
	Overload Capacity	105% < Load < 125% for 1 min, 125% < Load < 150% for 30sec		
EFFICIENCY	AC Mode	Full Load ≥ 89%		
	Battery Mode	Full Load ≥ 86%		
	ECO Mode	Full Load ≥ 95%		
BATTERY	Number of Batt. per set	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 12Vdc 9Ah Built-in Long-run model: Optional External Battery Capacity to 12Vdc 40Ah		
	Backup Time	Standard unit: 5 to 12mins Long-run unit: External Battery Dependent	Standard unit: 8 to 16mins Long-run unit: External Battery Dependent	Standard unit: 5 to 10mins Long-run unit: External Battery Dependent
	Recharge Time (to 90%)	4 Hours	5 Hours	5 Hours
	Charger Current (Standard unit)	1A	1A	1A
	Charge Current (Long-run unit)	1A Built-in, 4A Long-run and > 4A as Option	1A Built-in, 4A Long-run and > 4A as Option	1A Built-in, 4A Long-run and > 4A as Option
	Rated Battery Voltage	24Vdc Built-in / 36Vdc Long-run	72Vdc Built-in / 96Vdc Long-run	
	Protection	Over Voltage, Over Current, Low Voltage		
Battery Socket	Anderson (Power Pole Modular Connectors)			
TRANSFER TIME	Mains ↔ Battery	0ms		
	Mains ↔ Bypass	0ms		
SPECIAL FEATURE	Economic Mode (Eco-Mode)	Support		
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 (D * W * H) in mm	282 * 145 * 220	397 * 145 * 220	421 * 190 * 318
	Packing Dimension (D * W * H) in mm	524 * 258 * 334	603 * 332 * 340	603 * 332 * 482
	Standard Unit Net/Gross Weight (KG)	14 / 16.5	17 / 20	24 / 27
	Long-run unit Net / Gross W (KG)	4.5 / 7	7 / 10	7.5 / 10.5
	Operating Environment	0 to 40°C		
	Relative Humidity	0 to 90% (non-condensing)		
	Altitude	< 1500m, when > 1500m, derating		
Noise Level	< 55db at 1 Meter			
INTERFACE	Standard RS232 interface, (Option: USB, Dry contact, and SNMP Card )			

# Excellence ECU Series Semi Industrial AC UPS

MODEL	ECU1106	ECU1110	ECU3110	ECU3115	ECU3120	
CAPACITY in kVA/kW	6kVA/5.4kW	10kVA/9kW	10kVA/ 9kW	15kVA/13.5kW	20kVA/18kW	
SYSTEM INPUT						
Phase	1 / 1 Phase, 1W+N+G			3 / 1 Phase, 3W+N+G		
Input PF	≥ 0.999			≥ 0.96		
Input Voltage	Low Transfer	L-N: 176Vac ± 3% @ 100% Load, 130Vac ± 3% @ 50% Load				
	Low Back	L-N: 188Vac ± 3% @ 100% Load, 142Vac ± 3% @ 50% Load				
	High Transfer	L-N: 286Vac ± 3%				
	High Back	L-N: 270Vac ± 3%				
Input frequency	40 – 70Hz					
BATTERY						
Type	VRLA Battery 12Vdc 7Ah to 12Vdc 9Ah			External Battery Capacity Dependent 12Vdc 7Ah to 12Vdc 40Ah as Standard and > 12Vdc 40Ah as Option		
Quantity	16 Blocks					
Backup Time	Standard Unit	3 to 10 mins Load Dependent				
	Long-run Unit	External Battery Capacity Dependent				
DC Voltage	192Vdc					
Float Voltage	Adjustable to 220Vdc					
Recharging Current	Standard Unit	1A			4A as Standard and > 4A as Option	
	Long-run Unit	4A as Standard and > 4A as Option				
SYSTEM OUTPUT						
Output P.F	0.9					
Output Voltage	220 / 230 / 240Vac +/-1% (Static)					
Frequency	46 ~ 54Hz or 56 ~ 64Hz @ Line mode,, 50 / 60Hz ± 0.1Hz @ Battery mode					
Crest Factor	3:1					
Waveform Distortion	Less than 2% @ Linear load, Less than 4% @ Non-linear load					
Over Load	105% < Load <125% for 1min, 125% < Load < 150% for 30s					
Efficiency	95% @ Inverter Full Load Mode					
	98% @ECO Mode					
Transfer Time	0ms @ AC-Battery					
	0 ms @ Bypass and Inverter					
INDICATOR						
LCD Panel	UPS status, Load level, Load Watt, Load VA, Battery level, Input / Output voltage, Output current, Bus voltage, Temp, Warning, Fault code and Events					
AUDIBLE ALARM						
Battery Mode	Sounding Every Four Seconds( can be muted)					
Low Battery	Sounding Every Second					
Overload	Sounding Every Second					
Fault	Continuously Sounding					
MANAGEMENT						
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC					
Optional	SNMP / AS400 / USB					
ENVIROMENT						
Operation Humidity	0-to 90 % RH @ Non-condensing @ 0-to 40°C					
Noise Level	Less than 55dBA @ 1 Meter			Less than 58dBA @ 1 Meter		
PHYSICAL						
Net Weight (KG)	Standard Unit	62	75	NA	NA	NA
	Long-run Unit	32	35	35	55	55
Gross Weight (KG)	Standard Unit	67	79	NA	NA	NA
	Long-run Unit	37	40	160	200	260
Unit Dimension (D * W * H) in mm	369 * 190 * 688 (Standard) 369 * 190 * 318 (Long-run)	422 * 190 * 688 (Standard) 422 * 190 * 318 (Long-run)	422 * 190 * 318		592 * 250 * 576	
Packing (D * W * H) in mm	680 * 360 * 810 (Std) , 680 * 360 * 420 (Long-run)			730 * 360 * 420		900 * 420 * 680

## **3P Power One Stop Solution**



**3P Power**

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