

3P Power

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



PRODUCT CATALOGUE

Excellence ECU Series Semi Industrial AC UPS

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Excellence ECU Series AC UPS are suitable for both Commercial and Industrial environment



* Industrial application such as Process & Control system, Machinery, Instrument and Measurement, Process Monitoring, Control and Security



* Infrastructures application such as Hospital, Airport, Semiconductor, Water treatment, Building, Traffic Control, Computer Networking and IT Device



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



* Military application such as Precision Instruments, Monitoring and Transmission

• 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 and Power Factor Correction (PFC) provide the 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 HMI Panel

The 3 inch colourful 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 Compact 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

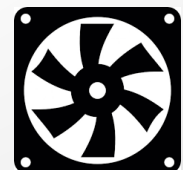
The back feed protection device prevents any voltage back feed in the upstream distribution board, thus ensuring the safety of the maintenance personnel.

• 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

Load and operating temperature dependent Intelligent fan speed control.



Excellence ECU Series Semi Industrial AC UPS

Technical Specification - 1 Phase in / 1 Phase out

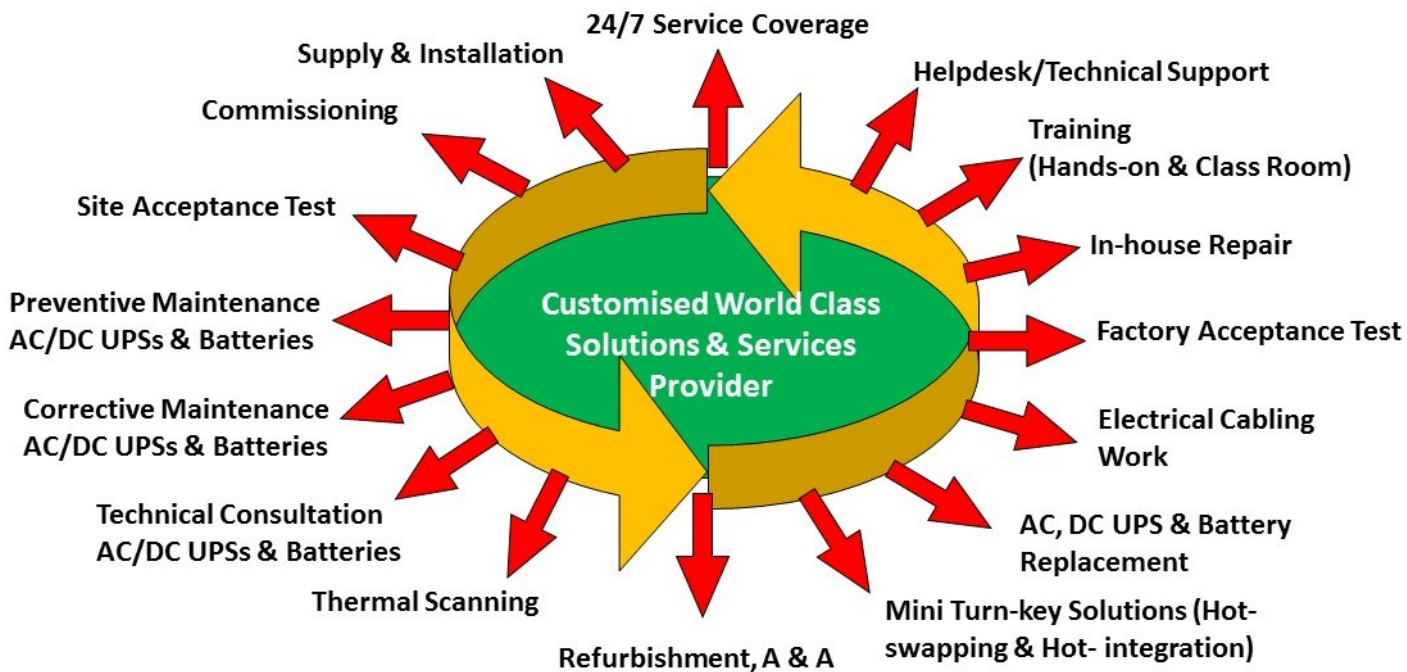
MODEL		ECU 1101	ECU 1102	ECU 1103
CAPACITY in kVA / kW		1kVA / 0.9kW	2kVA / 1.8kW	3kVA / 2.7kW
INPUT	Voltage	Low Transfer	L-N: 176VAC ± 3% @ 100% load, 130VAC ± 3% @ 50% load	
		Low Back	L-N: 188VAC ± 3% @ 100% load, 142VAC ± 3% @ 50% load	
		High Transfer	L-N: 276VAC ± 3%	
		High Back	L-N: 266VAC ± 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%)	5 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.		
	Battery Mode	Sounding Every Four Seconds		
AUDIBLE ALARM	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 in kg	10 / 12.5	17 / 20	24 / 27
	Long-run unit Net / Gross W in 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

Technical Specification - 1 Phase in / 1 Phase out & 3 Phase in /1 Phase out

MODEL		ECU 1106	ECU 1110	ECU 3110	ECU 3115	ECU 3120
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 in kg	Standard Unit	62	75	NA	NA	NA
	Long-run Unit	32	35	35	55	55
Gross Weight in 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

Passion Profession Perfection

3P Power Pte Ltd

1 UBI View, #04-21

Focus One Singapore 408555

T +65 743 1006 & +65 6635 7632

F +65 6634 1129

E enquiry@3ppower.com

W www.3ppower.com

Offices

- Singapore
- Myanmar