

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					
OUTPUT	Current		4A		7.8A		11.7A	
	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	
EFFICIENCY	Overload Capacity		105% < Load < 125% for 1 min, 125% < Load < 150% for 30sec					
	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 to10mins 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 RS-232 interface. USB, Dry contact (Option: SNMP or MODBUS-RTU)							

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						
Standard		Smart RS-232, USB Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC				
Optional		Dry Contact or SNMP or MODBUS				
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



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