

# 3P Power

Passion Profession Perfection



## PRODUCT CATALOGUE

Excellence Compact Rack Series 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

### • 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

### • FAN SPEED CONTROL

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

### • 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



\* Military application such as Security and Monitoring

# Excellence Compact Rack Series AC UPS

MODEL		ECUR1101	ECUR1102	ECUR1103	
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 Or 85Vac ± 3% (Ph-N) @ 100% Load, 65Vac ± 3% (Ph-N) at 50% Load		
		Low Back	L-N: 188Vac ± 3% @ 100% Load, 142Vac ± 3% @ 50% Load Or 95Vac (Ph-N) at 100% Load, 75Vac (Ph-N) at 50% Load		
		High Transfer	L-N: 286Vac ± 3% Or 155Vac ± 3%		
		High Back	L-N: 270Vac ± 3% Or 140Vac ± 3%		
	Frequency Range		45-55Hz at 50Hz, 55-65Hz at 60Hz (Automatic Detection)		
	Phase		1:1 Phase, L+N+G		
	Current THDi		< 6% (100% Non-linear Load)		
	Power Factor		≥ 0.99		
	Generate Input		Support		
	Recommended Breaker		7A	16A	25A
	ECO Range		200 - 240Vac Or 108 - 132Vac		
	Bypass Voltage Range		186 - 252Vac Or 102 - 138Vac		
	Current Harmonic		≤ 3% (100% Non-linear Load)		
OUTPUT	Voltage		208 / 220 / 230 / 240Vac or 110 / 120 / 127Vac		
	Power Factor		0.9		
	Voltage Regulation		± 2%		
	Frequency (Static Bypass Mode)		46 - 54Hz at 50Hz, 56 - 64Hz at 60Hz		
	Frequency (Battery 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 Female Sockets		
	Overload Capacity		105% < Load < 125% for 1 mins, 125% < Load < 150% for 30sec		
EFFICIENCY	AC Mode		Full Load ≥ 90%		
	Battery Mode		Full Load ≥ 90%		
	ECO Mode		Full Load ≥ 95%		
BATTERY	Number of Battery		2 Blocks Built-in / 3 Blocks Long-run	6 Blocks Built-in / 6 Blocks Long-run	
	Battery Type		Sealed Lead Acid Maintenance Free, Standard model: 12Vdc 7Ah or 9Ah Built-in Long-run Unit: Optional External Battery Capacity to 12Vdc 60Ah		
	Backup Time		About 120mins with External Battery Pack	About 90mins with External Battery Pack	About 60mins with External Battery Pack
	Recharge Time to 90%		5 Hours	5 Hours	5 Hours
	Charge Current (Standard Unit)		1A	NA	NA
	Charge Current(Long-run Unit)		6A and > 6A as Option	6A and > 6A as Option	6A and > 6A as Option
	Rated Battery Voltage		24Vdc Built-in / 36Vdc Long-run	72Vdc Built-in / 72Vdc Long-run	
	Protection		Over Voltage, Over Current, Low Voltage		
Battery Socket		Anderson (Power Pole Modular Connectors)			
TRANSFER TIME	Mains ↔ Battery		0ms		
	Mains ↔ Bypass		0ms		
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 UPS →		485 * 480 * 88 (2U)	630 * 480 * 88 (2U)	630 * 480 * 88 (2U)
	(D * W * H)mm Battery Pack →		External	External	External
	Packing Dimension UPS →		External	External	External
	(D * W * H)mm Battery Pack →		External	External	External
	Standard Unit Net/Gross (KG)		32 / 35	34 / 36	37 / 39
	Long-run Unit Net/Gross (KG)		14 / 18	15 / 20	16 / 23
	Operating Environment		0-40°C		
Relative Humidity		0-90% (non-condensing)			
Altitude		< 1500m, when > 1500m, derating			
Noise Level		< 55db at 1 Meter			
INTERFACE	Standard: USB and AS400, Option: SNMP				

# Excellence Compact Rack Series AC UPS

MODEL		ECUR1106	ECUR1110	
CAPACITY in kVA / kW		6kVA / 6kW	10kVA / 10kW	
INPUT	Voltage	Low Transfer	L-N: 176Vac ± 3% @ 100% Load; 130Vac ± 3% @ 50% Load Or 85Vac ± 3% (Ph-N) @ 100% Load, 65Vac ± 3% (Ph-N) at 50% Load	
		Low Back	L-N: 188Vac ± 3% @ 100% Load, 142Vac ± 3% @ 50% Load Or 95Vac (Ph-N) at 100% Load, 75Vac (Ph-N) at 50% Load	
		High Transfer	L-N: 286Vac ± 3%	
		High Back	L-N: 270Vac ± 3%	
	Frequency Range		40Hz-70Hz, Tracking Range 46-54Hz at 50Hz, 56-64Hz at 60Hz	
	Phase		1:1 Phase, L+N+G	
	Current THDi		< 6% (100% Non-linear Load)	
	Power Factor		≥ 0.99 at 100% Load	
	Generate Input		Support	
	Recommended Breaker		32A	63A
	ECO Range		200 - 240Vac Or 108 - 132Vac	
	Bypass Voltage Range		186 - 252Vac Or 102 - 138Vac	
	Current Harmonic		≤ 3% (100% Non-linear Load)	
	OUTPUT	Voltage		208 / 220 / 230 / 240Vac
Power Factor		1.0		
Voltage Regulation		± 1%		
Frequency (Static Bypass Mode)		46 - 54Hz at 50Hz, 56 - 64Hz at 60Hz		
Frequency (Battery Mode)		50 / 60Hz ± 0.1Hz		
Crest Factor		3:1		
Harmonic Distortion		≤ 3% THD (Linear Load) ≤ 6% THD (Non-linear Load)		
Output Waveform		Pure Sine Wave		
Outlet		Universal Female Sockets		
Overload Capacity		105% < Load < 125% for 1min, 125% < Load < 150% for 30sec		
AC Mode		92% at Full Load		
Battery Mode		90% at Battery Mode		
Number of Battery		16 Blocks per string		
BATTERY		Battery Type		Sealed Lead Acid Maintenance Free, Standard model: 12Vdc 7Ah for 6kVA or 9Ah for 10kVA Long-run Unit: Optional External Battery Capacity 12Vdc 60Ah
	Backup Time		About 90mins with External Battery Pack	
	Recharge Time to 90%		5 Hours	
	Charge Current (Standard Unit)		1A	
	Charge Current(Long-run Unit)		6A Long-run and > 6A as Option	
	Rated Battery Voltage		192Vdc	
TRANSFER TIME INDICATOR	Mains ↔ Battery		0ms	
	Mains ↔ Bypass		0ms	
	LCD Panel		Load, Battery, Input, Output, Operating Mode Information etc.	
AUDIBLE ALARM	Battery Mode		Sounding Every Four Seconds (Can be muted)	
	Low Battery		Sounding Every Second	
	Overload		Sounding Every Second	
	Fault		Continuously Sounding	
PHYSICAL	Unit Dimension UPS →		630 * 480 * 88 (2U)	
	(D * W * H)mm Battery Pack →		External	
	Packing Dimension UPS →		630 * 540 * 166	
	(D * W * H)mm Battery Pack →		External	
	Std Unit Net/Gross (kg) UPS →		22/25	
	Battery Pack →		55/58	
	Long-run Unit Net/Gross (kg)		17/23	
	Operating Environment		0-40°C	
Relative Humidity		0-90% (non-condensing)		
Altitude		< 1500m, when > 1500m, de-rating		
Noise Level		< 55db at 1 Meter	< 58db at 1 Meter	
INTERFACE	Standard: Smart RS232/USB, Option: SNMP Power Management From SNMP Manager and Web Browser			
PARALLEL TECHNOLOGY	Advanced N+1 Redundancy Parallel Technology with Maximum 6 Units			

## 3P Power One Stop Solution



**3P**Power

Passion Profession Perfection

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