

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



* Security and Monitoring application

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		45Hz - 55Hz at 50Hz, 55Hz - 65Hz at 60Hz (Automatic Detection)		
	Phase		1:1 Phase, L+N+G		
	Current THDi		< 6% (100% Non-linear Load)		
	Power Factor		≥ 0.99		
	Generator 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)		46Hz - 54Hz at 50Hz, 56Hz - 64Hz at 60Hz			
Frequency (Battery Mode)		50Hz / 60Hz ± 0.02Hz			
Crest Factor		3:1			
Harmonic Distortion		≤ 3% THD (Linear Load) ≤ 5% THD (Non-linear Load)			
Output Waveform		Pure Sine Wave			
Outlet		Two Female Universal Sockets (Option for other types of socket)			
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)		4A	6A	6A
	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: RS-232 and USB, Option: Dry Contact or 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 46Hz-54Hz at 50Hz, 56Hz-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)		46Hz - 54Hz at 50Hz, 56Hz - 64Hz at 60Hz	
Frequency (Battery Mode)		50Hz / 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 or 20 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	Maximum 45mins with External Battery Pack
	Recharge Time to 90%	5 Hours	5 Hours
	Charge Current (Standard Unit)	1A	1A
	Charge Current(Long-run Unit)	6A Long-run and > 6A as Option	6A Long-run and > 6A as Option
	Rated Battery Voltage	192Vdc or 240Vdc	
TRANSFER TIME	Mains ↔ Battery	0ms	
	Mains ↔ Bypass	0ms	
INDICATOR	LCD Panel	Load, Battery, Input, Output, Operating Mode Information etc.	
	Battery Mode	Sounding Every Four Seconds (Can be muted)	
AUDIBLE ALARM	Low Battery	Sounding Every Second	
	Overload	Sounding Every Second	
	Fault	Continuously Sounding	
	Unit Dimension UPS →	630 * 480 * 88 (2U)	630 * 480 * 133 (3U)
PHYSICAL	(D * W * H)mm Battery Pack →	External	External
	Packing Dimension UPS →	630 * 540 * 166	680 * 540 * 200
	(D * W * H)mm Battery Pack →	External	External
	Std Unit Net/Gross (kg) UPS →	22/25	27 /30
	Battery Pack →	55/58	55 /58
	Long-run Unit Net/Gross (kg)	17/23	20/25
	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: RS-232 and USB, Option: Dry Contact or SNMP		
PARALLEL TECHNOLOGY	Advanced N+1 Redundancy Parallel Technology with Maximum 6 Units		

Excellence Compact Rack Series AC UPS

MODEL		ECURL1101	ECURL1102	ECURL1103
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	45Hz-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		
	Generator Input	Support		
	Recommended Breaker	10A	16A	25A
	ECO Range	200Vac - 240Vac		
	Bypass Voltage Range	186Vac - 252Vac		
	Current Harmonic	≤ 3% (100% Non-linear Load)		
OUTPUT	Voltage	220 / 230 / 240 Vac		
	Power Factor	0.9		
	Voltage Regulation	± 1%		
	Frequency (Static Bypass Mode)	46Hz - 54Hz at 50Hz, 56Hz - 64Hz at 60Hz		
	Frequency (Battery Mode)	50Hz / 60Hz ± 0.1Hz		
	Crest Factor	3:1		
	Harmonic Distortion	≤ 3% THD (Linear Load)		
		≤ 5% THD (Non-linear Load)		
	Output Waveform	Pure Sine Wave		
	Outlet	Two Female Universal Sockets (Option for other types of socket)		
Overload Capacity	105% < Load < 125% for 1 mins, 125% < Load < 150% for 30sec			
EFFICIENCY	AC Mode	Full Load ≥ 90%		
	Battery Mode	Full Load ≥ 85%		
	ECO Mode	Full Load ≥ 95%		
BATTERY	Battery Type	Sealed Lead Acid Maintenance Free, Ni-Cd Battery, Lithium Ion Battery		
	Battery Voltage	48Vdc		
	Battery Charging Voltage	52.5Vdc		
	Battery Charging Current	5A	10A	10A
TRANSFER TIME	Mains ↔ Battery	0ms		
	Inverter ↔ Bypass	<4ms		
	ECO ↔ Battery	8ms		
DISPLAY	LCD	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 in mm UPS →	450 * 438 * 88 (2U)	500 * 438 * 88 (2U)	500 * 438 * 88 (2U)
	Battery Pack →	External	External	External
	Net Weight (kg)	8	9	12
	Operating Environment	0-40°C		
	Relative Humidity	0-90% (non-condensing)		
	Altitude	< 1500m, when > 1500m, derating		
Noise Level	< 50dB at 1 Meter			
INTERFACE	Standard: RS232 & USB	Support Windows® Family, Linux and MAC		
	BMS Communication	RS485		
	Option: SNMP or Dry Contact	Power management from SNMP manager and web browser		
STANDARD	EMC & Safety	EN62040-2 C2		

Excellence Compact Rack Series AC UPS

Long Run MODEL		ECURL1103L	ECURL1105L	ECURL1106L	
CAPACITY in kVA / kW		3kVA / 3kW	5kVA / 5kW	6kVA / 6kW	
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		46Hz-54Hz at 50Hz, 56-64Hz at 60Hz (Automatic Detection)		
	Phase		1:1 Phase, L+N+G		
	Current THDi		< 8% (100% Non-linear Load)		
	Power Factor		≥ 0.99		
	Generator Input		Support		
	Recommended Breaker		32A	40A	63A
	ECO Range		200Vac - 240Vac		
	Bypass Voltage Range		186Vac - 252Vac		
	Current Harmonic		≤ 3% (100% Non-linear Load)		
	OUTPUT	Voltage		220 / 230 / 240 Vac	
Power Factor		1.0			
Voltage Regulation		± 1%			
Frequency (Static Bypass Mode)		46Hz - 54Hz at 50Hz, 56Hz - 64Hz at 60Hz			
Frequency (Battery Mode)		50Hz / 60Hz ± 0.1Hz			
Crest Factor		3:1			
Harmonic Distortion		≤ 3% THD (Linear Load) ≤ 5% THD (Non-linear Load)			
Output Waveform		Pure Sine Wave			
Outlet		Two Female Universal Sockets (Option for other types of socket)			
Overload Capacity		105% < Load < 125% for 1 mins, 125% < Load < 150% for 30sec			
EFFICIENCY	AC Mode		Full Load ≥ 93%		
	Battery Mode		Full Load ≥ 93%		
	ECO Mode		Full Load ≥ 98%		
BATTERY	Battery Type		Sealed Lead Acid Maintenance Free, Ni-Cd Battery, Lithium Ion Battery		
	Battery Voltage Range		40Vdc ~ 64Vdc		
	Battery Charging Voltage		54Vdc		
	Battery Charging Current		60A	60A	60A
TRANSFER TIME	Mains ↔ Battery		0ms		
	Inverter ↔ Bypass		<4ms		
	ECO ↔ Battery		<8ms		
DISPLAY	LCD		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 in mm UPS →	420 * 438 * 132 (3U)	430 * 438 * 132 (3U)	430 * 438 * 132 (3U)	
	Battery Pack →	External	External	External	
	Net Weight (kg)	15	15	15	
	Operating Environment	0-40°C			
	Relative Humidity	0-90% (non-condensing)			
	Altitude	< 1500m, when > 1500m, derating			
Noise Level	< 50dB at 1 Meter				
INTERFACE	Standard: RS232 & USB		Support Windows® Family, Linux and MAC		
	BMS Communication		RS485		
	Option: SNMP or Dry Contact		Power management from SNMP manager and web browser		
STANDARD	EMC & Safety		EN62040-2 C2		

3P Power One Stop Solution



3PPower

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

W www.3ppower.com