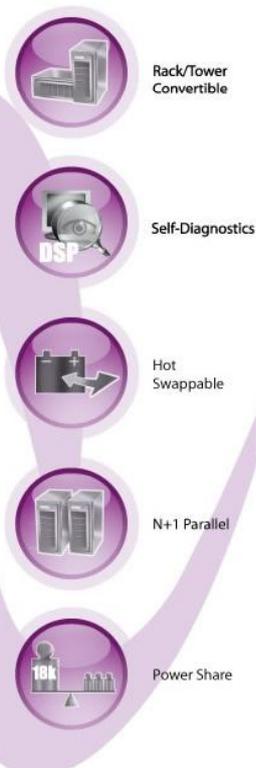




## Odin Convertible Series On-line UPS

The Odin Convertible series on-line double conversion UPS with minimized depth is an ideal solution for telecom application environment. An advanced Digital On-line double conversion UPS. The Odin includes industry leading green input power factor, input harmonics and superior output power factor is perfect for mission critical applications.

- Rack/Tower Convertible Design
- Advanced Digital Control Technology
- Double Conversion Online Technology
- Unity Input Power Factor
- Superior Output Power Factor Performance
- Simple Parallel Installation for 6/10Kva
- Emergency Shutdown Control through EPO
- Hot Swappable Battery
- Matching Battery Cabinet
- Extended Runtime Capability
- Powerful Built-in Charger
- Wide Input Voltage and Frequency Windows
- Programmable Receptacles
- Customer Options Slot
- Optional External Bypass Switch



# Odin Convertible Series On-line UPS

## Unique Design for Telecom Application Environment

To fit into telecom application environment, the Odin is designed to be within 420~550mm depth, so as to be fitted into telecomm rack cabinets, which normally requires for maximum 600mm depth.

### Rack/Tower Convertible Design

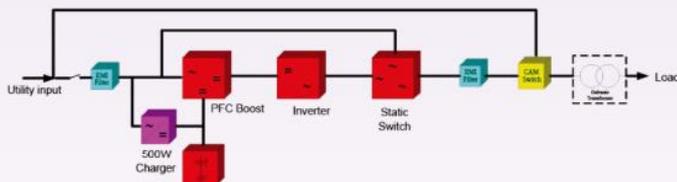
Enables integration into a wide variety of environments.

### Advanced Digital Control Technology

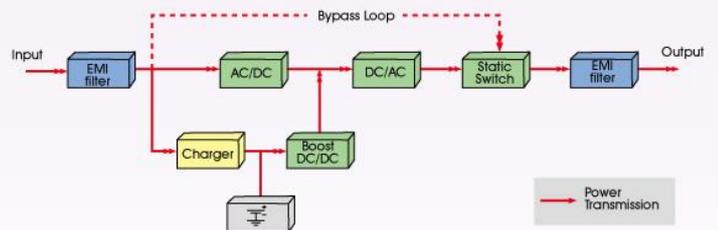
Achieves higher reliability and greater immunity from Utility power problems to the connected load.

### Double Conversion Online Technology

Completely re-generates the Utility power to correct power disturbances in the Mains. The unit provides clean AC power with voltage and frequency independent from the Utility.(VFI)



OD 6000/10000



OD 1000/2000/3000

### Unity Input Power Factor

Meets today's industry standard for energy saving and low current harmonic pollution to the Utility.



### Superior Output Power Factor Performance

Meets tomorrow's demand today.

### Simple Parallel Installation for 6/10Kva

Increasing power capacity and configuring a parallel redundant UPS system up to 3 additional UPS are simply interconnected by using the CAN-bus RJ45 cables on the rear of the UPS.

### Emergency Shutdown Control through EPO

Allows users to shut down the UPS in emergency to ensure a safe operating environment.

### Optional LCD display also available for 1K~3Kva

Easy-to-read LCD display with compound keypads may not only provide UPS status but enhance functions such as the calibration, setting and service of the UPS.

### Hot Swappable Battery

Allows battery replacement without any interruption to the critical load.

### Matching Battery Cabinet

Standard matching battery cabinets are available to extend the UPS runtime easily to several hours.





Rack/Tower Convertible



Self-Diagnostics



Hot Swappable



N+1 Parallel



Power Share

### Extended Runtime Capability

Enables users to connect additional battery banks by simply plugging in the battery connectors between the UPS and battery banks without requiring additional chargers.

### Powerful Built-in Charger

Provides approximately 1.8A~2.7A charging ability to re-charge internal battery to 90% in 3-5 hours. The charger may be put in the battery bank to extend battery runtime up to maximum required.

#### For 1~3Kva

Specifications	1K	2K/3K
Model Name	CHR200W	
<b>AC Input</b>		
Voltage Window	80V~288Vac	
Current	2.9A Max	
Frequency	50Hz/60Hz+/-10%	
<b>DC Output</b>		
Voltage(No Load)	41.0+/-0.5Vdc	82.0+/-0.5Vdc
Charging Current	4A	2A
Efficiency(Full Load)	>80%	
Output Capacity	Max. 160W	
Operation Mode	Constant Voltage with Current Limitation	
Dimension(WxHxD)mm	195x70x90	
Net Weight(kgs)	0.55	



#### For 6K~10Kva

AC Input Range	160~280Vac, 45~65Hz
Maximum Power Output	1000W, continuously
Operation Mode	Constant Voltage with Power Limitation
Maximum Parallel Units	Up to 4 units
Protections	Over-temperature, Over-voltage, Against output short-circuit & isolated devices for opposite polarity connection
Mounting	Mounted on the rear of the battery bank or the wall
Dimension(WxHxD)mm	166x282x86
Net Weight(kgs)	3.2



### Programmable Receptacles

Remote Reboot and Load Shedding reserving back-up power for critical loads. This feature is only available from 1~3Kva.





### Customer Options Slot

Allows further flexibility in Network configuration. An internal 2nd RS232, USB, WEB/SNMP card or Dry Contact card provides isolated contacts for industrial and remote alarm panel application.

### Optional External Bypass Switch

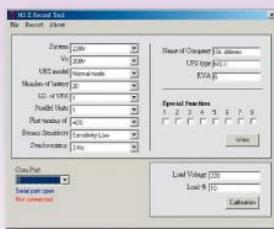
Ensures continuous supply of power to the critical load in the event of electronic failure, overload, over-temperature, or scheduled maintenance.



Model	Rating	AC Input Plug	Connect to UPS Input	Connection to UPS Output & cord length	Output Receptacles/protection
RACPDU-216G	230V 3KVA	IEC C20(16A)	IEC C19(16A)	IEC C20 * 1 Attached 6-foot cord	IEC C13(10A) * 6 with 10A circuit breaker IEC C19(16A) * 1 with 16A circuit breaker

### Parallel Distribution Boxes

Model	Description	Dimension(WxHxDmm)	Application
RacPDU-230	Max. 30A	326x88x100	Max. 1pce 6Kva
RacPDU-260	Max. 60A	440x176x124	Max. 2pcs 6Kva or 1pce 10Kva
RacPDU-2120	Max. 120A		Max. 4pcs 6Kva or 2pcs 10Kva
RacPDU-2200	Max. 200A		Max. 4pcs 10Kva



### Downloadable Setting Tool

Voltage configuration, UPS mode selection, Output Voltage, Fine Tuning, Bypass Voltage Window, Frequency Synchronized Window and Programmable Outlet Setting can be re-configured by the setting tool.

### Communication Capability

The bundled communication software allows the control of the UPS and graceful shutdown when Utility Fails. Users can:

- Remotely test the major operating functions of the UPS.
- Communicate via SNMP/Web/Network adapter.
- Access UPS functions via the web.
- Alert users via SMS messages against specific events.



# Odin Convertible Series On-line UPS

Model	OD1000	OD2000	OD3000	OD6000	OD10000
<b>INPUT</b>					
Voltage(Vac)	120/140/160~288*			160~280Vac**	
Frequency(Hz)	50/60 +/-5Hz(Auto Sensing)				
Phase	Single phase with ground				
Input Power Factor	>0.99(Full Load)				
Current THD(100% linear Load)	<6%				
<b>OUTPUT</b>					
Voltage(Vac)	200/208/220/230/240 selectable			200/208/220/230/240Vac Selectable	
Voltage Regulation	<+/-1% until low battery warning			+/-2%	
Capacity	1000/800	2000/1600	3000/2400	6000/4800	10000/8000
Rated Power Factor	0.8 lagging				
Waveform	Sine Wave, THD <3%(no load to full load)				
Frequency Stability	+/-0.1% unless synchronized to line			+/-0.1%(Free Running)	
Frequency Regulation	+/-1Hz or +/-3Hz				
Transfer Time	0ms				
Crest Factor	3:1				
Efficiency(AC to AC, Normal)	>88%		>90%		
Autonomy	>5min.		>4min.	>8min.	>5min.
Efficiency(AC to AC, ECO)	N/A			Up to 95%	
DC Start	Yes				
<b>BATTERY</b>					
Type	Sealed Lead Acid Maintenance Free				
Capacity	12V/7AH		12V/9AH	12V/7AH	12V/9AH
Quantity	3	6		20	
Voltage	36	72		240	
Recharge Time	4 hours to 90%			4-5 hours to 90%	
Built-in Charger(max.Charging current)	1.8A	2.1A	2.7A	1.8A	
<b>DISPLAY</b>					
LCD	Normal, Battery, Bypass, Programmable Outlet1, Programmable Outlet2, Self-test, Battery Weak & Bad, Site Wiring Fault, Overload and Load/Battery Level conditions			N/A	
LED+LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature, Programmable Outlet1, Programmable Outlet2, etc.			Input Voltage Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature, etc.	
Self-Diagnostics	Upon Power on, Self Diagnostics and software control, 1-hour routine checking			Upon Power on, front panel setting & software control, 24-hour routine checking	
<b>ALARMS</b>					
Audible and Visual	Line Failure, Battery Low, Overload, System Fault...etc.				
<b>PROTECTION</b>					
Overload AC Mode & Backup Mode	<105% continuously <106%~120% for 30 seconds transfer to bypass <121%~150% for 10 seconds transfer to bypass >150% immediately transfer to bypass Buzzer continuously alarm			105%~150% for 160 seconds~2 cycles before switching bypass Buzzer continuously alarm	
	Bypass Mode <105% continuously >106%~120% for 125 seconds shut down >121%~148% for 125~5 seconds shut down > 149%~188% for 2 seconds~0.16 seconds shut down Buzzer continuously alarm			105%~200% for 500 seconds ~ 8 cycles before stopping supply load Buzzer continuously alarm	
Short Circuit	Hold whole System				
Overheat	AC Mode: Switch to Bypass Backup Mode: Switch off the UPS				
Battery Low	Alarm and Switch Off				
EPO	UPS shuts down immediately				
Battery	Advanced Battery Discharge Management			N/A	
Noise Suppression	300 joules				
Heat Dissipation(at full linear load)***	<145W	<290W	<330W	<450W	<600W

Model	OD1000	OD2000	OD3000	OD6000	OD10000
Leakage Current	≤ 3.5mA				
<b>PHYSICAL</b>					
Dimension WxHxDmm	440x88x405	440x176x405		440x132x550	440x132x680
Input Connection	IEC320-C14		IEC320-C20	Hardwire	
Outlets	6 x IEC320-C13		4 x IEC320-C13 & 1 x IEC320-C19	Hardwire	
Net Weight(kgs/lbs)	15.1	26	26.8	17.5	26
<b>ENVIRONMENT</b>					
Operating Temperature	0°C~40°C				
Temperature Warning	The battery design life is based on a temperature of 25°C Ambient temperature above this range will reduce battery life.				
Altitude	0~2000m up to 40°C, 3000m up to 35°C				
Humidity	90% RH Maximum, Non-Condensing				
Noise	<50dB(at 1 meter)				
<b>COMPUTER INTERFACE</b>					
Interface Type	Standard RS232 and USB Interface			Standard RS232 Interface	
Communication Slots	2nd RS232, USB, Relay Contact, SNMP/WEB Card, etc.			2nd RS232, USB, RS485, Relay Contact, SNMP/WEB Card, etc.	
Compatible Platforms	Window 95/98/NT/2000/XP/Vista, Novell Netware, Linux, etc.				
<b>SAFETY CONFORMANCE</b>					
Quality Assurance	ISO9001 Certified Company				
Safety Standard	EN62040-1-1				
EMC Standard	EN62040-2, EN61000-3-2, EN61000-3-3				
Marks	CE				

● Based on load(%) = 0~33/33-66/66~100% respectively  
 \*\* 160~176Vac at <75% load

<b>BATTERY BANK</b>					
Model	Battery Type	Maximum Quantity(pcs)	Without Batteries(kgs)	With Batteries(kgs)	Dimension(WxHxD)mm
BBC12M4U007	7 AH	12	8.0	34.0	440x176x420
BBC12K4U009	9 AH			38.0	
BBC20J4U007	7 AH	20	18.0	62.0	440x176x550
BBC20N4U009	9 AH			68.0	





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