

# TRUE ONLINE DOUBLE CONVERSION TECHNOLOGY

Model :

## ZC-MP2

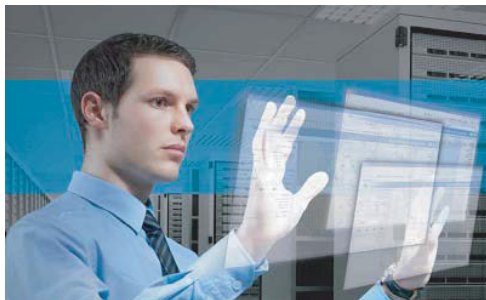
1:1 Phase

Rating 1kVA, 2kVA, 3kVA.



### LCD Operation & LED Indicator

LCD control panel consists of LCD display board, LED and buttons, which displays and controls these information including alarm, bypass, battery, inverter, input voltage, output voltage, battery voltage, frequency, load, temperature, Fault, alarm code, function setting information.



### Intelligent slot optional

- USB
- SNMP
- Dry Contact Board

# ZIRCON™

The Smart Power Solution

### Introducing the ZC-MP2

UPS double-conversion online

from ZIRCON affordably protects mission-critical applications

from downtime, data loss and corruption. The double-conversion architecture incorporates rectifier and inverter stages to completely isolate the output power from all input anomalies. By adapting to a wide range of input voltages, the ZC avoids battery usage during minor power fluctuations, saving its capacity for times when utility power is completely lost.

### Highest power performance

- The ZC constantly monitors power conditions and regulates voltage and frequency. Even when presented with the most severe power problems, UPS's output remains within 2% of nominal voltage.
- More real power. High 0.9 output power factor enables the ZC to provide its full power capability to modern IT equipment.
- Highest efficiency to reduce utility and cooling spending. The ZC can provide up to 90% efficiency in online double conversion mode

### Features

- True Online double conversion with DSP control
- Wide input voltage range appropriate for the harshest electrical environments.
- LCD Display and LED Indicator
- Charger current can be setting by LCD Display
- Emergency power off function (EPO)
- 3-level intelligent Charging Method
- Eco mode operation for energy saving (ECO)
- USB / RS232 multiple communications
- Selectable output voltage :200/208/220/230/240Vac
- Optional SNMP / Relay Card communications
- Audible & Visual alarms : Line Failure, Battery Low, Overload, System Fault
- Tested for generator compatibility
- Cold start-on-battery power allows portable power
- Automatic bypass for fault tolerance
- CD software & cable

**2 YEARS WARRANTY**

<http://www.zircon.co.th>



ISO9001:2008 ISO14001

**Specifications**

	Model	1000VA	2000VA	3000VA
	Capacity (VA/W)	900W	1800W	2700W
	Phase	Single phase & Ground		
	Rated Voltage	200/208/220/230/240VAC		
	Voltage Range	140-290V*		
	Frequency Range	40Hz-70Hz (auto-detect)		
<b>Input</b>	Power Factor	0.99 @100% load(Nominal Input Voltage)		
	Current THDi	<6% at 100% non-linear load		
	Bypass Voltage Range	Bypass high voltage point : 230-264Vac (Setting on LCD, Default: 264Vac)		
		Bypass low voltage point : 170-220Vac (Setting on LCD, Default: 170Vac)		
	ECO Range	same as the bypass		
	Generator Input	Support		
	Phase	Single phase & Ground		
	Rated Voltage	200/208/220/230/240VAC		
	Power Factor	0.9		
	Voltage Regulation	+/-1% (Battery Mode)		
<b>Output</b>	Frequency - Utility Mode	50Hz or 60Hz (Synchronized to Mains)		
	- Battery Mode	50/60Hz +/-0.02Hz		
	Crest Factor	3:1		
	THD	<3% with linear load <5% with non linear load		
	Waveform	Pure Sinewave		
	AC Mode (full load)	up to 90%		
<b>Efficiency</b>	Battery Mode (full load)	>88%		
	ECO Mode (full load)	>94%		
	Voltage	24Vdc	48Vdc	72Vdc
	Capacity (Standard unit)	12V 9Ah		
<b>Battery</b>	Backup Time	Full load 5 min, 15-30 min (Depend on load). Long time depends on the capacity of EBP		
	Recharge Time	4 hours recover to 90% capacity (Typical)		
	Charging Current - Standard	1A		
	- Special	12A		
<b>Transfer Time</b>		Utility to Battery: Zero (0ms), Utility to bypass <4ms		
	Overload - AC Mode / Batt. Mode	105%~110%: UPS shuts down after 10 mins, 110%~130%: UPS shuts down after 1mins, >130%:UPS shuts down after 3 seconds		
	- Bypass Mode	10A (Input breaker)	16A (Input breaker)	20A (Input breaker)
	Short Circuit	Hold Whole System		
<b>Protection</b>	Overheat	Line mode: Switch to Bypass; Battery Mode; shutdown UPS immediately		
	Battery Low	Alarm and Switch off		
	Self-diagnostics	Upon Power On and Software Control		
	EPO (Optional)	Shutdown UPS immediately		
	Battery	Advanced Battery Management		
	Noise Suppression	Complies with EN62040-2		
<b>Alarm</b>	Audible & Visual	Line Failure, Battery Low, Overload, System Fault		
<b>Display</b>	LCD & LED	Input/Output Voltage, Frequency, Temperature, Load/battery Level, Charger, Load		
<b>&amp; Indicator</b>		Capacity, Battery Voltage, Overload, ECO, Warning, Bypass, Battery, Inverter, ect.		
	Dimension(WxHxD) mm	144*209*293	144*209*399	191*337*460
<b>Physical</b>	Weight (kg)	9.8	17	27.6
	External Battery Connection	Anderson like PowerPole Modular connectors		
<b>Communication</b>	RS232 / USB Port	Support Windows Family, Linux, FreeDSB, etc.		
<b>Interface</b>	Communication Slot	SNMP Card / Relay Card *Optional		
	RJ45	Built-in Power Surge, Lightning Protection Device		
	Operating Temperature	0C - 40C		
<b>Environment</b>	Storage Temperature	-25C - 55C		
	Humidity	0-90% non condensing		
	Altitude	<1500m.(derating while > 1500m)		
	Noise	<50dB (at 1 meter)		
<b>Standards</b>	Safety	IEC/EN62040-1,IEC/EN60950-1		
	EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,		
		IEC61000-4-5,IEC61000-4-6,IEC61000-4-8		
	ISO	ISO9001, ISO14001		