

UPS ONLINE RM 4U SERIES

Industrial Communication Ports Compact, Minimal Depth Five-Year Warranty



"...power alliance ... "

DESCRIPTION

AETES's 19" Rack Mountable RM 4U series UPS are designed to provide conditioned power to electronic control systems and other sensitive electronic equipment. AETES RM 4U UPS is a Double Conversion, On-line UPS, protects your equipment from voltage sags, spikes and complete power failure that may interrupt critical systems, cause data loss and even damage equipment; continuously conditions and regulates its output voltage.

FEATURES

- True On-Line Double Conversion
- Selectable ECO-MODE operation for Higher Effiency
- UPS Monitoring and Automatic Shutdown Software
- Low output voltage ripple and high reliability
- LCD display, showing measurements, status and alarm messages
- Audible alarm and Led displays for easy observation of UPS status
- EPO Port Ready Emergency Power Off Switch
- Setup of Voltage and Frequency from front panel
- Over Load, Over Temperature, Short Circuit protections
- Wide input voltage range
- Cold Start; DC Power On

OPTIONS

- External DC Power Socket and Additional Battery Modules for Longer Backup Time
- SNMP Web/Network Management Module
- Dry Contact Relay Module
- USB-B Communication Port
- RS485 ModBUS Communication Module
- Remote Monitoring Panel

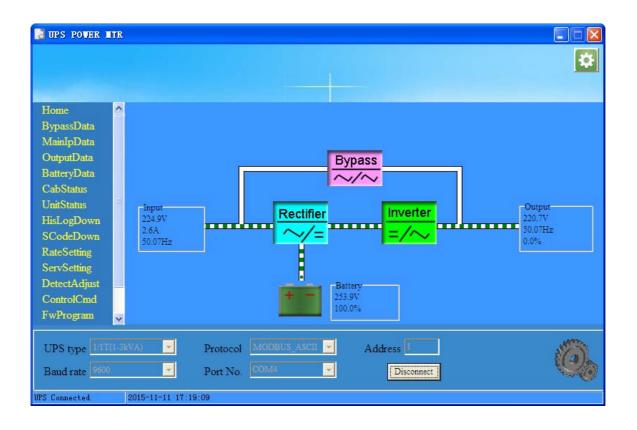
GENERAL SPECIFICATION

MODEL	RM 4U 2000	RM 4U 3000	
Fopology	True On-Line. D	Oouble Conversion	
On-battery Output Waveform	True Sine Wave		
Maximum Capacity	2000VA / 1800W	3000VA / 2700W	
INPUT			
AC Input Type	Single Pha	ase (P+N+G)	
Nominal Input Voltage	208/ 220/ 230/ 240 VAC		
nput Voltage Range	112V 286V AC		
Nominal Input Frequency	50Hz / 60Hz (Auto Sensing)		
nput Frequency Range	4070 Hz		
nput PFC	>0.98 @	ĝFull load	
OUTPUT			
Nominal Output Voltage		0 VAC (Selectable)	
Dutput Voltage Regulation	Rated Voltage +/-1%		
Dutput T.H.D	<2% THD at	Linear Load	
fficiency AC to AC (Eco Mode)	<	97%	
Crest Factor	3:1		
Start on Battery	Y	/es	
Auto Restart	Ŷ	/es	
Number of Outlets	IEC320 C13 x6	IEC320 C13 x6 + IEC320 C19 x1	
PROTECTION			
Surge Protection			
Overload Protection	130% Load for 60sec 150% of 30sec ((Batt. Mode; 130% Load for 10sec)	
Short Circuit Protection	UPS output cut	t off immediately	
BATTERY			
Internal Battery Set	8-Year Life AETES 12V33.8W ×6	8-Year-Life AETES 12V33.8W ×8	
Typical Backup Time (Full / Half load)*	12/ 30 min	9/ 23 min	
Recharge Time to 90% (Typical)	<81	Hours	
DIAGNOSTICS			
Front Panel LCD and LEDs	AC mode / On line / On battery / Bypass	/ Fault / Overload and other parameters	
Audible Alarms	Battery Mode / UPS Faults / Overload		
COMMUNICATION			
Communication Port	Standard; RS232 (Optional; USB	B-B or AS400 or Dry Contact Module)	
SNMP Network Management Module	Optional		
ENVIRONMENTAL			
Operation Temperature	0^	~40°C	
Storage Temparature	-20~70°C		
Relative Humidity	0~95% humidity, non-condensing		
Audible Noise	< 40dBA (at 1 meter	r from surface of unit)	
COMPATIBILITY			
		62040-1-1	
	IEC/EN 62040-2 /Class A		
EMI			
EMI PHYSICAL Dimensions (WxDxH) (mm)	438×480×176	438×480×176	
EMI PHYSICAL Dimensions (WxDxH) (mm)	438×480×176 28.0/ 29.5	438×480×176 34.0 / 35.5	

MONITORING SOFTWARE

AETES Power Monitor software (UPS Power MTR) is designed for monitoring and setting RM UPS series. Its serial cable can be connected directly from UPS's RS232 or USB-B port to the your system computer's serial port. For example, the UPS event history log can be viewed on the interface or downloaded as a file.





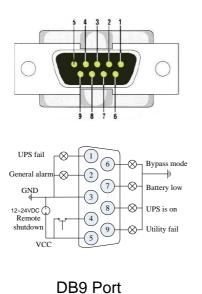
AETES UPS Monitoring Software Interface Main Page

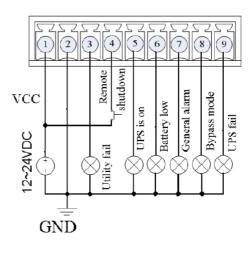
DRY CONTACT RELAY MODULE

It is one of the optional modules that can be used in the Intelligent Slot. There are two connection types of Relay Card for option: DB9 or CableTerminal. Max output current for Dry Contacts on Relay Card is 1 Amp. The function of outputs are listed as below:

FUNCTION	DB9	TERMINAL	DESCRIPTION
UPS fault	1	9	Opened from common connection: UPS is abnormal.
			Closed: UPS is normal
General	2	7	Opened from common connection: UPS is warning
			Closed: UPS is normal
GND	3	2	Internal GND, used to connect external power supply 12 24Vdc
Remoted	4	4	Input port. Used with external power supply.
shutdown			If connected to power supply, UPS transfer to bypass.
			UPS shutdown if bypass is abnormal
Common	5	1	Common connection of output signal.
connection			Connected to power supplyfor input signal. Shown as Fig 5 2.
Bypass	6	8	Closed to common connection: UPS is working in bypass mode
mode			Opened: UPS is not working in bypass mode
Battery	7	6	Opened from common connection: battery low alarm
low			Closed: battery capacity is normal or not in battery mode
Normal	8	5	Closed from common connection: UPS is working in normal mode.
mode			
Utility	9	3	Opened form common connection: Utility input is failure
failure			

DESCRIPTION OF RELAY MODULE PINS

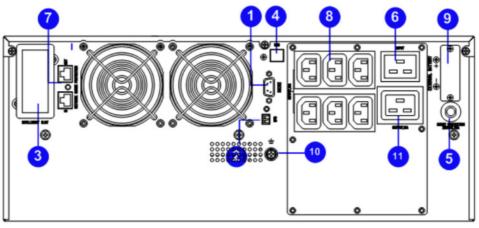




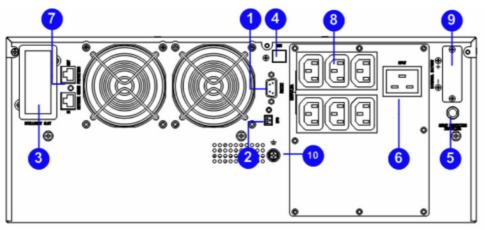
Cable Terminal

Fig.8 Wiring Diagram of Dry Contact Relay Card

BACK PANEL

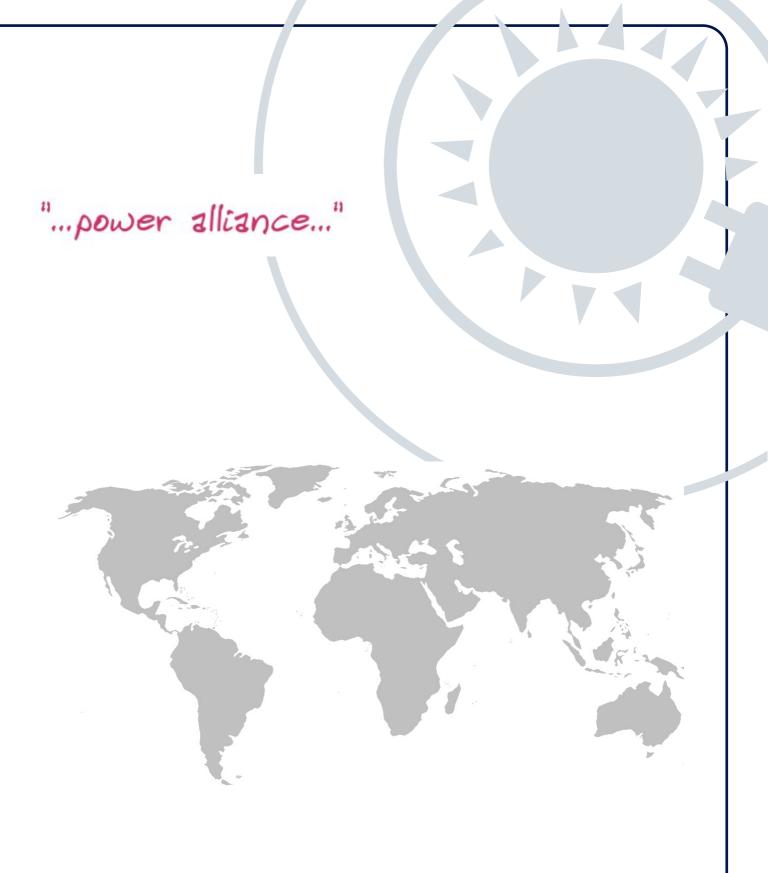


AETES RM 4U 3000



AETES RM 4U 2000

	RS232 Communication Port.		
2	EPO (Short to activate)		
3	Intelligent Slot		
4	USB port. B type (Optional)		
5	Input Surge Protection Reset Button		
6	Input Socket IEC C20		
7	Network Surge Protection.		
8	Output Sockets IEC C13		
(9)	Optional External Battery Socket Slot		
	Battery Ground		
	Output Socket IEC C19		





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