

# DC Max series

1000VA / 1000W    2000VA / 2000W    3000VA / 3000W  
6000VA / 6000W    10000VA / 10000W



## Double-Conversion Online UPS

### Features:

- True double-conversion design with high adaptability to harsh mains conditions
- Real PF 1 can provide more power in same space
- High efficiency results in energy saving
- Adjustable charging current and flexible battery configuration
- Optimized changing method to expand battery life time.
- Short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Programmable outlet group will extend back up time for most critical equipment (6-10K need PDU model)
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Compact size requiring small installation space
- Hot swappable battery will save customer service cost (For 1-3K standard UPS model)
- Low audible noise at typical load
- Multiple communication interface: RS232 (USB/EPO/Relay card/SNMP card optional)
- N+X parallel redundancy, support maximum 4 units in parallel
- Load segment settable (Optional)
- Versatile LCD human-computer interface
- Generator compatible
- Emergency power off function (EPO)

# DC Max Series

## Application solutions

Online double-conversion UPS protection for every environment - 2 to 10 kVA.

UPTIME SYSTEMS

**DC Max Series — Online Double-Conversion UPS**

Clean, uninterrupted power for your servers and network : 2–10 kVA

Grid mains  
spikes · sags · outages

→

**DC Max online UPS**  
double conversion · battery backup

→

Your equipment  
clean, always-on power

Server / comms rack



**One UPS. Five sizes.**

Online double-conversion protection — 2U rack or lower.

|          |                   |                              |
|----------|-------------------|------------------------------|
| 1000 VA  | UPT-IOTRT1000LCD  | • True double-conversion     |
| 2000 VA  | UPT-IOTRT2000LCD  | • Output power factor 1.0    |
| 3000 VA  | UPT-IOTRT3000LCD  | • Hot-swap battery (1–3kVA)  |
| 6000 VA  | UPT-IOTRT6000LCD  | • SNMP / IoT monitoring      |
| 10000 VA | UPT-IOTRT10000LCD | • N+X parallel redundancy    |
|          |                   | • Expandable battery runtime |

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### Server / comms room

UPTIME SYSTEMS

**DC Max Series — Online UPS for Data Centres**

Scalable double-conversion power across your racks : 2–10 kVA, N+X parallel

Grid mains  
spikes · sags · outages

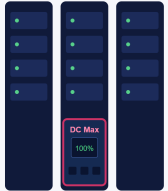
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**DC Max online UPS**  
double conversion · battery backup

→

Data centre racks  
clean, redundant power

Data centre — multiple racks



**One UPS. Five sizes.**

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### Data centre

UPTIME SYSTEMS

**DC Max Series — Online UPS for Healthcare**

Reliable backup for life-critical medical and imaging equipment : 2–10 kVA

Grid mains  
spikes · sags · outages

→

**DC Max online UPS**  
double conversion · battery backup

→

Medical equipment  
zero-break protection

Critical care & imaging



**One UPS. Five sizes.**

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### Healthcare

UPTIME SYSTEMS

**DC Max Series — Online UPS for Office & Small Business**

Protect your servers, NAS and point-of-sale : 1–3 kVA rack or lower

Grid mains  
spikes · sags · outages

→

**DC Max online UPS**  
double conversion · battery backup

→

Office IT & POS  
always-on power

Office server, NAS & POS



**One UPS. Five sizes.**

Online double-conversion protection — 2U rack or lower.

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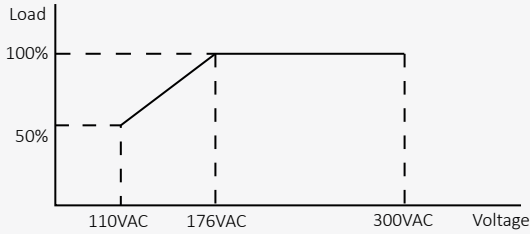
### Office & small business

# Technical Specification:

| MODEL                |                       | UPT-IOTRT1000LCD                                                                                                                                                                                                                   | UPT-IOTRT2000LCD      | UPT-IOTRT3000LCD                                                                                       |
|----------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------|
| Nominal Power        | VA/Watt               | 1000VA/1000W                                                                                                                                                                                                                       | 2000VA/2000W*         | 3000VA/3000W                                                                                           |
| Input performance    | Voltage range         | 110~300Vac (176~264Vac @ 100% load)                                                                                                                                                                                                |                       |                                                                                                        |
|                      | Nominal frequency     | 50Hz/60Hz                                                                                                                                                                                                                          |                       |                                                                                                        |
|                      | Frequency range       | 40~70Hz (50/60Hz Auto-Sensing)                                                                                                                                                                                                     |                       |                                                                                                        |
|                      | PF                    | >0.99                                                                                                                                                                                                                              |                       |                                                                                                        |
|                      | THDI                  | <5%                                                                                                                                                                                                                                |                       |                                                                                                        |
|                      | Input connection      |                                                                                                                                                                                                                                    | 1x IEC C14            | 1x IEC C20                                                                                             |
| Output performance   | Nominal voltage       | For 1k & 3k: 200/208/220/230/240 VAC (derating 10% at 208V, derating 20% at 200V)<br>For 2k: 220/230/240 VAC (Nominal voltage 220VAC power derating to 90% of rating power)                                                        |                       |                                                                                                        |
|                      | Nominal frequency     | 50Hz/60Hz                                                                                                                                                                                                                          |                       |                                                                                                        |
|                      | Maximum PF            | PF = 1                                                                                                                                                                                                                             |                       |                                                                                                        |
|                      | Voltage accuracy      | ±1%                                                                                                                                                                                                                                |                       |                                                                                                        |
|                      | THDv                  | <3% linear load; <5% nonlinear load                                                                                                                                                                                                |                       |                                                                                                        |
|                      | Transfer time         | 0ms@line <-> battery; 4ms @ line <-> bypass; 10ms @ ECO <->Inverter                                                                                                                                                                |                       |                                                                                                        |
|                      | Crest Ratio           | Max 3:1                                                                                                                                                                                                                            |                       |                                                                                                        |
|                      | Overload              | 105%~125%: UPS transfer to bypass after 1minute when the utility is normal<br>125%~130%: UPS transfer to bypass after 30 seconds when the utility is normal<br>>130%:UPS transfer to bypass immediately when the utility is normal |                       |                                                                                                        |
|                      | Socket                | 1 main outlet group (with 4 x IEC C13)<br>1 programmable outlet group (with 4 x IEC C13)                                                                                                                                           |                       | 1 main outlet group (with 1 x IEC C19 + 4 x IEC C13)<br>1 programmable outlet group (with 4 x IEC C13) |
|                      | Load segment control  | 1 programmable load segment control                                                                                                                                                                                                |                       |                                                                                                        |
| Battery              | Capacity (AH)         | 3 x 12V(7/9Ah)                                                                                                                                                                                                                     | 6x 12V(7/9Ah)         | 6x 12V(7/9Ah)                                                                                          |
| Maximum EBM quantity |                       | 4                                                                                                                                                                                                                                  |                       |                                                                                                        |
| EBM auto detection   |                       | Yes                                                                                                                                                                                                                                |                       |                                                                                                        |
| Other mode           | CVCF                  | Yes (derating to 60% load)                                                                                                                                                                                                         |                       |                                                                                                        |
| HMI                  | Display               | Dot matrix LCD (optional segment LCD)                                                                                                                                                                                              |                       |                                                                                                        |
| Communication        | Port                  | interface USB (or RS232), SNMP card (optional), Relay card (optional)                                                                                                                                                              |                       |                                                                                                        |
| Dimension (W*D*H) mm |                       | 440*325*86.5 (2U)                                                                                                                                                                                                                  | 440 x 600 x 86.5 (2U) |                                                                                                        |
| Environment          | Operating temperature | 0-40°C                                                                                                                                                                                                                             |                       |                                                                                                        |

\* 220VAC: 1800VA/1800W, 230VAC: 2000VA/2000W, 240VAC: 2000VA/2000W.

# Technical Specification:

| MODEL                        |                                  | UPT-IOTRT6000                                                                                               | UPT-IOTRT10000 |
|------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------|----------------|
| Nominal power                |                                  | 6KVA/6KW                                                                                                    | 10KVA/10KW     |
| Nominal frequency            |                                  | 50/60Hz                                                                                                     |                |
| Input                        | Voltage range<br>(Phase voltage) |  <p>110Vac-300Vac</p>     |                |
|                              | Nominal voltage                  | 220/230/240VAC                                                                                              |                |
|                              |                                  |                                                                                                             |                |
| Output                       | Rated voltage<br>(Phase voltage) | 220/230/240VAC                                                                                              |                |
|                              | Overload on normal mode          | Load≤110%, last 60 min;<br>≤125%, last 10 min; ≤150%, last 1 min;<br>>150%, turn to bypass mode immediately |                |
|                              |                                  |                                                                                                             |                |
| Transfer Time Line<->Battery |                                  | 0ms                                                                                                         |                |
| Transfer Time INV<->Bypass   |                                  | 0ms                                                                                                         |                |
| Battery Voltage              |                                  | 240VDC                                                                                                      |                |
| Battery Number               |                                  | 20PCS                                                                                                       |                |
| Other mode                   | CVCF                             | Yes (derating to 60% load)                                                                                  |                |
| HMI                          | Display                          | Dot matrix LCD (optional segment LCD)                                                                       |                |
| Communication                | interface                        | USB(or RS232), SNMP card(optional), Relay card (optional)                                                   |                |
|                              |                                  |                                                                                                             |                |
| Dimension(W*D*H) mm          |                                  | 440*621.5*86.5 (2U)                                                                                         |                |
| Environment                  | Ambient temperature              | 0°C ~ 50°C (Derating 50% above 40°C)                                                                        |                |

## Rear Panel



UPT-IOTRT1000LCD



UPT-IOT RT2000LCD



UPT-IOT RT3000LCD



UPT-IOT EBM-RM2U 24Vdc



UPT-IOT EBM-RM2U 72Vdc



UPT-IOT RT6000/10000LCD



EMB for UPT-IOTRT6000/10000LCD

# Backup time

| Model Name         |                 | backuptime (min)/ Load percent |       |       |       |       |
|--------------------|-----------------|--------------------------------|-------|-------|-------|-------|
|                    |                 | 30%                            | 50%   | 70%   | 90%   | 100%  |
| UPT-IOTRT1000LCD   | Internal (7Ah)  | 23.6                           | 11.8  | 7.1   | 5.0   | 4.2   |
|                    | Internal +1 EBM | 90.1                           | 50.2  | 32.8  | 25.4  | 21.9  |
|                    | Internal +2 EBM | 162.1                          | 94.0  | 63.9  | 50.1  | 43.7  |
|                    | Internal +3 EBM | 235.6                          | 138.7 | 95.8  | 76.0  | 66.8  |
|                    | Internal +4 EBM | 311.0                          | 183.9 | 128.2 | 102.6 | 90.5  |
| UPT-IOT RT2000LCD  | Internal (7Ah)  | 25.4                           | 12.5  | 7.5   | 5.2   | 4.4   |
|                    | Internal +1 EBM | 111.2                          | 62.1  | 41.2  | 31.8  | 27.9  |
|                    | Internal +2 EBM | 206.4                          | 117.8 | 79.9  | 61.6  | 54.3  |
|                    | Internal +3 EBM | 306.1                          | 176.0 | 120.5 | 92.8  | 82.2  |
|                    | Internal +4 EBM | 409.8                          | 235.8 | 162.2 | 125.1 | 111.0 |
| UPT-IOT RT3000LCD  | Internal (9Ah)  | 19.9                           | 10.1  | 6.1   | 4.4   | 3.7   |
|                    | Internal +1 EBM | 75.2                           | 40.7  | 26.1  | 20.4  | 17.6  |
|                    | Internal +2 EBM | 137.6                          | 77.0  | 50.9  | 39.4  | 34.4  |
|                    | Internal +3 EBM | 202.3                          | 114.9 | 77.0  | 59.5  | 52.2  |
|                    | Internal +4 EBM | 269.0                          | 153.8 | 104.0 | 80.3  | 70.6  |
| UPT-IOT RT6000LCD  | Internal        | 25.2                           | 13.2  | 8.5   | 6.1   | 5.3   |
|                    | Internal+1 EBM  | 61.4                           | 32.2  | 20.8  | 15.0  | 13.0  |
|                    | Internal+2 EBM  | 103.4                          | 54.3  | 35.0  | 25.2  | 21.9  |
|                    | Internal+3 EBM  | 149.6                          | 78.5  | 50.7  | 36.5  | 31.7  |
|                    | Internal+4 EBM  | 199.2                          | 104.5 | 67.5  | 48.5  | 42.2  |
| UPT-IOT RT10000LCD | Internal        | 17.0                           | 8.9   | 5.8   | 4.2   | 3.6   |
|                    | Internal+1 EBM  | 41.2                           | 21.7  | 14.1  | 10.1  | 8.8   |
|                    | Internal+2 EBM  | 69.1                           | 36.3  | 23.6  | 17.0  | 14.8  |
|                    | Internal+3 EBM  | 99.8                           | 52.4  | 34.1  | 24.6  | 21.4  |
|                    | Internal+4 EBM  | 132.7                          | 69.7  | 45.3  | 32.7  | 28.4  |

Comment: The backup time should be -10% ~ 20% tolerance