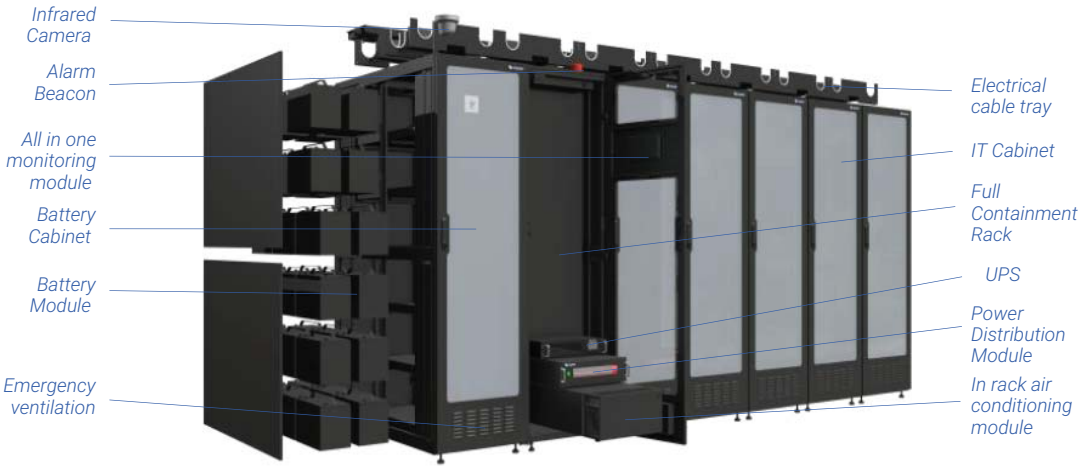
Enterprise Micro Data Center
EMDC-VR Series

Litech EMDC-VR Series solution offers various customizable configuration of integration of cabinets, power supply and distribution systems, cooling systems, cabling systems, dynamic environment monitoring, management software, and much more. EMDC VR-Series innovate approach provides user the flexibility to data center design with fast deployment rate, best in class energy efficiency and low operating cost.



FEATURES

- Fully-enclosed design that comes with cold and hot aisle with contained airflow providing greater cooling efficiency
- Modular and scalable architectures that minimizes footprint
- Customizable design and various predefined configuration
- Support remote centralized management and constant monitoring to enhance operational efficiency



Product Specification

Model	EMDC-VR-02-05	EMDC-VR-03-07	EMDC-VR-04-15	EMDC-VR-05-15	EMDC-VR-06-18	EMDC-VR-07-24	EMDC-VR-08-25	EMDC-VR-09-36
Total cabinet configuration	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8
Overall Dimension (W*D*H)(mm)	1200*1350 *2000	1800*1350 *2000	2400*1350 *2000	3000*1350 *2000	3600*1350 *2000	4200*1350 *2000	4800*1350 *2000	5400*1350 *2000
Recommended Load Capacity (kW)	≤5.4	≤9	≤16	≤18	≤18	≤24	≤27	≤36
Max. Power capacity of a single cabinet	≤7kW							
PUE Level	< 1.2							

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Comprehensive Cabinet								
Dimension (W*D*H)(mm)	600*1350*2000							
Available U Space	32U							
IT Cabinet								
Dimension (W*D*H)(mm)	600*1350*2000							
Available U Space	43U							
Cooling System								
Cooling Unit	19" Rack Mount Type							
Rated Cooling Capacity (kW)	5	7.5	7.5*2	7.5*2	12.5*2	12.5*2	12.5*2	12.5*3
Cooling Mode	Air Cooled							
U Height	5U	8U	8U+8U	8U+8U	10U+10U	10U+10U	10U+10U	10U+10U+10U
Refrigerant	R410A							
Air Supply Mode	Horizontal Air Supply							
Power Supply & Distribution								
Input Power Supply	220V,50Hz	220V,50Hz	380V,50Hz	380V,50Hz	380V,50Hz	380V,50Hz	380V,50Hz	380V,50Hz
Power Distribution Module								
Main Power Input Single Circuit Mains Power Input	MCB 63A/ 1P*1	MCB100A/ 2P*1	MCB 125A/ 3P*1	MCB 125A/ 3P*1	MCB 160A/ 3P*1	MCB 160A/ 3P*1	MCB 160A/ 3P*1	MCB 160A/ 3P*1
Lightning protection requirements C-level lightning Surge Protector, Imax=40kA In	MCB 32A/ 2P*1 *for lightning surge protector*	MCB 32A/ 2P*1 *for lightning surge protector*	MCB 32A/ 4P*1 *for lightning surge protector*	MCB 32A/ 4P*1 *for lightning surge protector*	MCB 63A/ 4P*1 *for lightning surge protector*	MCB 63A/ 4P*1 *for lightning surge protector*	MCB 63A/ 4P*1 *for lightning surge protector*	MCB 63A/ 4P*1 *for lightning surge protector*
Mains output UPS input and output switches	MCB 63A/ 1P*2	MCB 63A/ 1P*2	MCB 63A/ 3P*2	MCB 63A/ 3P*2	MCB 125A/ 3P*2	MCB 125A/ 3P*2	MCB 125A/ 3P*2	MCB 125A/ 3P*2
UPS maintenance bypass switch	MCB 63A/ 2P*1	MCB 63A/ 2P*1	MCB 63A/ 4P*1	MCB 63A/ 4P*1	MCB 125A/ 4P*1	MCB 125A/ 4P*1	MCB 125A/ 4P*1	MCB 125A/ 4P*1
Air conditioner input switch	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 40A/ 1P*2	MCB 40A/ 1P*2	MCB 40A/ 1P*3	MCB 40A/ 1P*3	MCB 40A/ 1P*3	MCB 40A/ 3P*3
Lighting switch	-	-	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1
Backup switch	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1
IT cabinets and backup switches of circuit B	MCB 32A/ 1P*4	MCB 32A/ 1P*4	MCB 32A/ 1P*6	MCB 32A/ 1P*6	MCB 32A/ 1P*10	MCB 32A/ 1P*10	MCB 32A/ 1P*10	MCB 32A/ 1P*10
UPS output IT cabinet switch of circuit A	MCB 32A/ 1P*4	MCB 32A/ 1P*4	MCB 32A/ 1P*6	MCB 32A/ 1P*6	MCB 32A/ 1P*10	MCB 32A/ 1P*10	MCB 32A/ 1P*10	MCB 32A/ 1P*10

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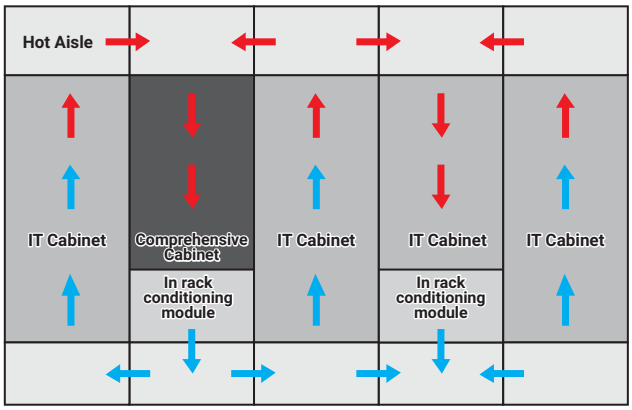
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Monitoring System	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1	MCB 32A/ 1P*1
Other	Built-in three phase digital meter which can monitor main circuit power supply voltage, current, power and other parameters.							
Chassis	3U 19" Rack Mount	3U 19" Rack Mount	6U 19" Rack Mount	6U 19" Rack Mount	10U 19" Rack Mount	10U 19" Rack Mount	10U 19" Rack Mount	13U 19" Rack Mount
UPS (Optional) Capacity	6kVA (Single Phase In, Single Phase Out)	10kVA (Single Phase In, Single Phase Out)	20kVA (Three Phase In, Three Phase Out)	20kVA (Three Phase In, Three Phase Out)	20kVA (Three Phase In, Three Phase Out)	30kVA (Three Phase In, Three Phase Out)	30kVA (Three Phase In, Three Phase Out)	40kVA (Three Phase In, Three Phase Out)
Power Factor	≥0.99							
Frequency range	40Hz~70 Hz							
Communication port	RS232 or USB							
Rack PDU	2* RPDU Basic, Single Phase, 20*C13 + 4*C19, 3m Cord Length, IEC 60309 30A, 0U Vertical							
Monitoring System								
Display	9.7" inch touch screen monitor with capacitive touch screen technology, 12V DC, LCD Resolution 800*1280							
Temperature&Humidity sensor	RS485 interface, 12V power supply							
Smoke sensor	DI access							
Water Leakage Sensor	3m non-positioning							
Lighting	Blue monochrome LED light strip -200mm							
Door Sensor	Door status detection							
Intelligent	Battery monitoring, video, electrical access, QR code access, intelligent linkage,							
Equipment Monitoring	UPS, air conditioning, power distribution , cabinet temperature and humidity sensors,							
	smoke sensor, water leakage detection, fire linkage							
Interface	5 * RS485, 1 * RS232, 5 * DI, 2 * DO, 2 * USB							
Communication Protocol	Uplink: Modbus TCP, downlink: Modbus RTU							
Fire Suppression System								
Emergency Fan								
Nominal Voltage	220V AC							
Rated Current	0.42A							
Air Volume	9.36 m3/min							
Fire Extinguishing System (Optional)								
Fire Extinguishing Agent	FM200/Novec1230N							
Trigger Method	Fire detection tube standard/electronic trigger/third-party fire protection system trigger/manual							
Environment								
Operating Temperature	-40°C~55°C							

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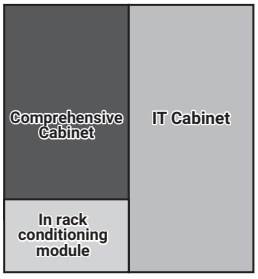
In Rack Air Flow System



Customizable configuration setting meeting any application requirements

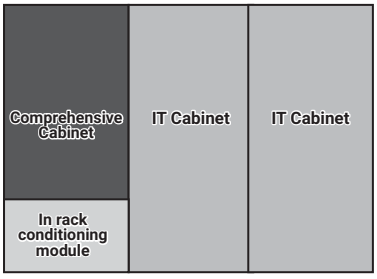
EMDC-VR-02-05





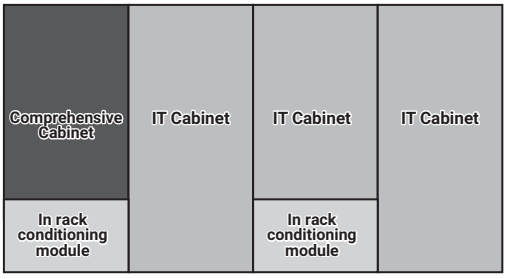
EMDC-VR-03-07





EMDC-VR-04-15



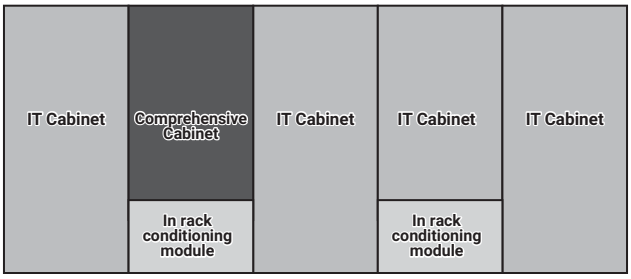


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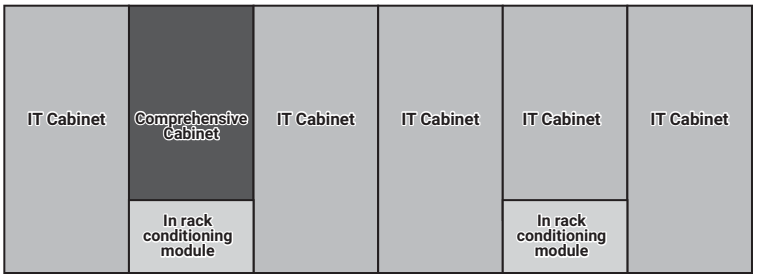
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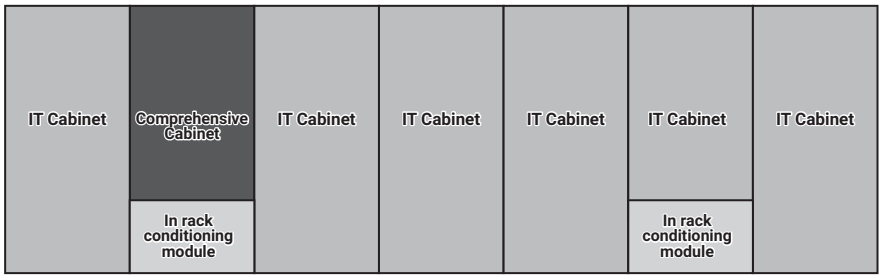
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EMDC-VR-07-15



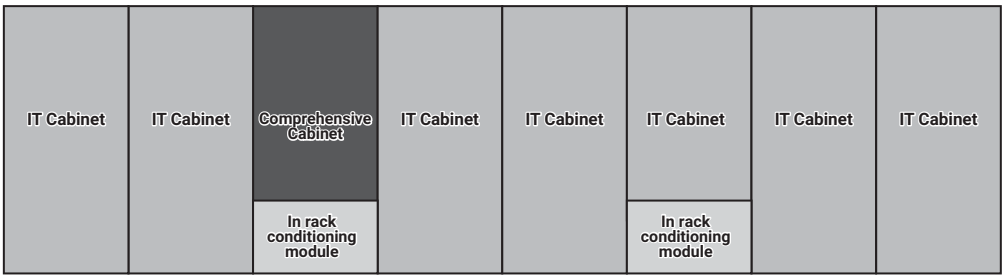


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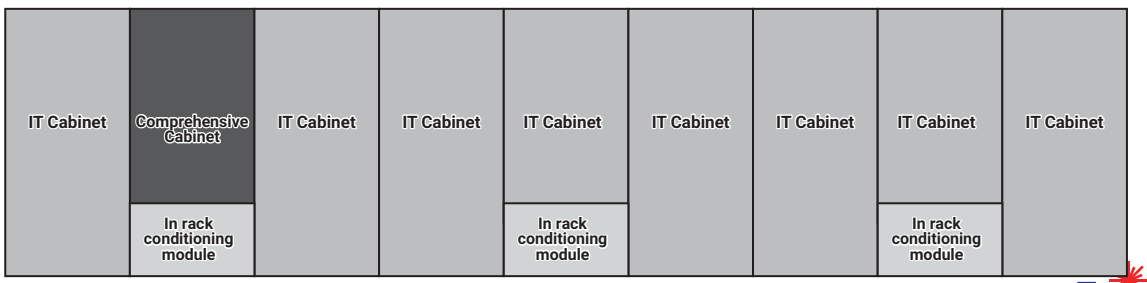
EMDC-VR-08-25





EMDC-VR-09-36





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