

**DIGITUS<sup>®</sup>**

# **OnLine UPS system**

## **Datasheet**



## Product description

The DIGITUS® OnLine UPS is a true double-conversion UPS solution that offers first-class **power failure protection and continuous power generation** in a compact 2 U housing. Switching to battery operation is uninterrupted. It protects consumers from all mains disturbances due to complete and partial power failures, voltage drops, overvoltages or frequency deviations.

The UPS can be operated as a 19" unit in a rack or also as a **tower solution**. The single-phase UPS offers high energy efficiency and is ideal for protecting critical infrastructure in both centralised and edge network applications.

**Expandable runtime options** with matching external battery modules provide additional flexibility when extended uninterruptible power supply is required.

The user-friendly **LCD display** and network management capability, including configuration, make this system easy to install and maintain.



## Benefits

- **High power factor (1.0)**, a higher effective power allows more connected loads, this saves space in the rack and reduces costs.
- **High efficiency** in online mode, a higher efficiency level means optimised energy management and lower heat dissipation, resulting in energy savings and improved reliability.
- **User-friendly LCD screen** provides UPS status insight for easy installation, configuration and operation.
- **Compact rack/tower design** optimises rack space and allows flexible installation.
- Minimal downtime of the unit due to **hot-swap capability**, user-replaceable battery modules, which can be replaced during operation.
- **External battery modules** enable an extended runtime to protect the critical loads
- With individually **controllable output sockets**, you can manage the power supply of individual devices without affecting the operation of other critical network devices.
- Various communication interfaces (RS232/ USB, parallel port, SNMP slot) enable **remote monitoring** of the system.
- **Automatic battery self-test** and fan speed control increase the service life of the components.
- The **REPO (Remote Emergency Power Off)** function switches off the UPS in case of an emergency. When an emergency occurs, the REPO switch turns off the rectifier and inverter and immediately stops power to the load. The UPS stops charging and discharging the battery.



## Technical features

- Online double conversion system (VFI-SS-111)
- AC-AC (online VFI) efficiency: 93 %, ECO mode efficiency: 98 %.
- Replaceable internal battery pack during operation.
- Battery: valve-regulated, non-spillable lead-acid battery.
- Charge: 4 hours to 90% capacity after fully discharged
- Network connection: Optional SNMP/Webcard (part number DN-170100) allows remote monitoring of the UPS
- Local communication ports: USB, RS-232 (serial), SNMP card (optional), relay card (optional)
- Emergency power-off (EPO) contact for UPS shutdown in case of emergency
- Maximum operating temperature: 0 - 40 °C
- Storage temperature: -25 - 55 °C
- Relative humidity: 20 - 90% non-condensing
- Operating altitude: < 1500 m
- Installation: Desktop, Rack
- Inch form factor (IEC 60297): 482.6 mm (19")

## Scope of delivery

- 1 x OnLine UPS system
- 1 x UPS user manual
- 1 x USB connection cable 1.2 m
- 1 x Mains cable 1.8 m
- 1 x RS232 cable
- UPS software license
- 19" installation brackets
- Feet for tower installation

All information also in our online shop.



	DN-170093	DN-170094	DN-170095	DN-170096	DN-170106	DN-170107
<b>General</b>						
<b>Rated power (VA/W)</b>	1.000 / 1.000	1.500 / 1.500	2.000 / 2.000	3.000 / 3.000	6.000 / 6.000	10.000 / 10.000
<b>Input</b>						
<b>Rated voltage</b>	208, 220, 230, 240 Vac					
<b>Voltage range without battery operation</b>	110 Vac - 300 Vac (variable, depending on output load)					
<b>Frequency</b>	40-70 Hz; automatic recognition					
<b>Input connector</b>	IEC60320-C14	IEC60320-C14	IEC60320-C20	IEC60320-C20	Hardwired	Hardwired
<b>Output</b>						
<b>Outputs</b>	IEC60320-C13 x8				Hardwired	
<b>Output-voltage</b>	208/220/230/240Vac ±1%					
<b>Waveform</b>	pure sine wave					
<b>Overload (power mode)</b>	105-125% for 1min, 125-130% for 30s				105-110% for 10 min 110-130% for 1min >130% 200ms	
<b>Efficiency AC mode / ECO mode</b>	88% / 97%	92% / 97%	92% / 97%	92% / 97%	93,5% / 97%	
<b>Battery</b>						
<b>Type</b>	Sealed, maintenance-free, valve-regulated lead-acid battery					
<b>Running time 100% load</b>	2.3 Min	3.02 Min	3.05Min	3.08 Min	8.36 Min	4.4 Min
<b>Running time 40% load</b>	14.3 Min	14.1 Min	14.12 Min	14.15 Min	29.54 Min	12.07 Min
<b>Typical Charging time</b>	4 hours recovery up to 90 % of capacity (internal batteries)					
<b>Charging current</b>	2 A	2 A	2 A	2 A	10 A	10 A
<b>Management and communication</b>						
<b>LCD user interface</b>	Yes					
<b>External interfaces</b>	USB, Serial, Emergency Power Off (EPO), Card slot (for optional SNMP / Relay card)					
<b>Management Software</b>	Yes					

	DN-170093	DN-170094	DN-170095	DN-170096	DN-170106	DN-170107
<b>Environment</b>						
<b>Operating temperature/ storage temperature</b>	0°C - 40°C / -25°C - 55°C					
<b>Air humidity</b>	20-90 % RH @ 0- 40°C (non-condensing)					
<b>Operating height</b>	1500 m					
<b>Standards</b>						
<b>Electrical safety</b>	EN 62040-1:2008+A1:2013					
<b>EMC</b>	EN 62040-2:2018, EN61000-3-2:2014, EN-61000-3-3:2013					
<b>Further guidelines</b>	WEEE und ROHS2 REACH					
<b>Accessories</b>						
<b>Battery modules</b>	DN-170120	DN-170121	DN-170122	DN-170123	DN-170108	
<b>SNMP Card</b>	DN-170100					
<b>Rail-Kit</b>	DN-170109					



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