

# MODULYS TC

from 3000 to 9000 VA

for telecommunication applications

Single-phase UPS



*Mod-TC 230*  
*Mod-TC 245*  
*Mod-TC 260*

*Mod-TC 360*  
*Mod-TC 390*

## The solution for

- > e.business
- > Computer networks
- > Telecommunications

## Complementary pages

- > Communication and connectivity, *page 102*

## The solution for supplying power systems

- Thanks to its particular architecture, designed especially for the telecoms sector, the **Mod-TC** combines batteries with extended back-up time with high capacity.
- **Mod-TC** is the ideal solution for isolated, unmanned installations, such as radio stations or links, mobile radio stations for cellular phone networks and GSM - GPRS - UMTS repeaters.

## Batteries and a charger adapted to prolonged back-up times

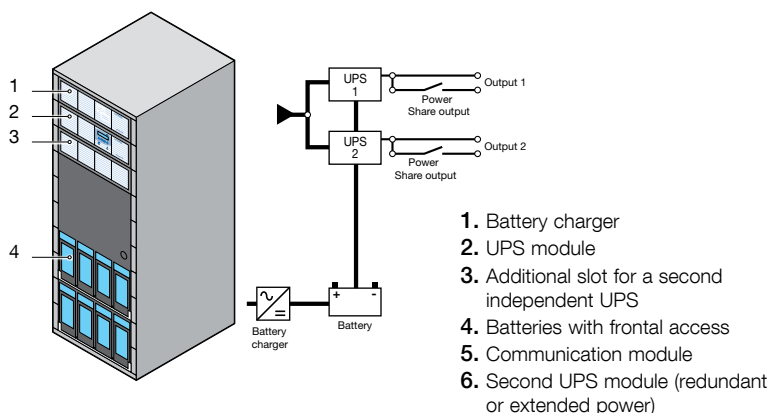
- Batteries have a lifespan of 10 years (AGMVRLA technology).
- Battery protection (fuses) connected by boards.
- Front battery access (easy maintenance).
- To guarantee constant and reliable operation, the 30 A battery charger provides rapid and stable recharging of 48 V - 100 Ah batteries after each period of back-up.

## Five models available with different architectures

- The **Mod-TC 2XX** stand-alone unit provides the ideal solution for applications which do not require an extended back-up time (more than 8 hours for the **Mod-TC 230**) and will not need to be upgraded.
- **Mod-TC 3XX**. The redundant modular system.
- **Mod-TC 360** and **Mod-TC 390**. These are flexible, modular, redundant systems to which additional power modules may be installed to increase power or to obtain an operating redundancy N + 1.

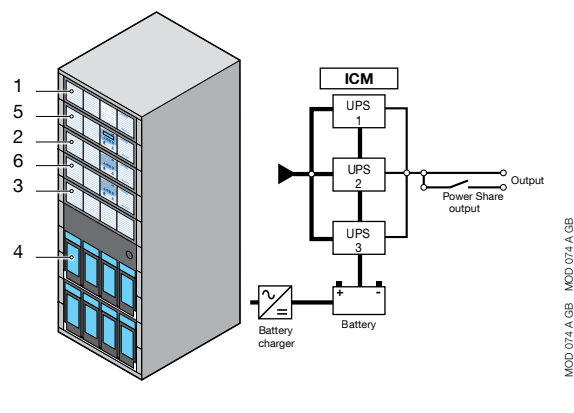
## Basic configurations

### Mod-TC 2XX system



Model	<b>Mod-TC 315</b>
Mod-Power	1 x 1500 VA
Battery pack	1

### Mod-TC 3XX system



Model	<b>Mod-TC 330</b>
Mod-Power	1 x 3000 VA
Battery pack	2

MOD 074 A GB MOD 074 A GE

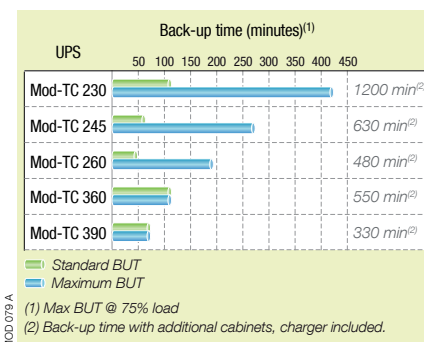
## Technical data

MODULYS TC					
Model	Mod-TC 230	Mod-TC 245	Mod-TC 260	Mod-TC 360	Mod-TC 390
Sn [VA]	3000	4500	6000	6000	9000
Pn [W]	2100	3150	4200	4200	6300
Input/output	1/1	1/1, 3/1	1/1, 3/1	1/1	1/1, 3/1
<b>INPUT</b>					
Rated voltage	230 V (1ph + N) or 400 V (3ph + N)				
Voltage tolerance	± 20%				
Rated frequency	50/60 Hz				
Frequency tolerance	from 45 to 65 Hz				
Power factor / THDI	> 0.98 / < 6%				
<b>OUTPUT</b>					
Rated voltage	230 V (1ph)				
Voltage tolerance	± 3% (can be configured for 208/220/240 V)				
Rated frequency	50-60 Hz				
Frequency tolerance	± 2% (± 0.1% autonomous frequency)				
Redundant N+1 <sup>(1)</sup>	-	-	-	6000 VA	9000 VA
Two independent UPS <sup>(1)</sup>	3000 + 3000 VA	4500 + 4500 VA	6000 + 6000 VA	-	-
Overload	110% for 1 minute, 130% for 10 seconds, 200% for 5 cycles				
Crest factor	3:1				
<b>BATTERIES</b>					
Type	long life battery (sealed, maintenance free)				
Back-up time	1 to 8 hours				
Battery tray (100 Ah 48 V) <sup>(2)</sup>	1	1	1	2	2
Recharge period	< 8 hours				
<b>EFFICIENCY</b>					
Online mode	up to 90%				
<b>ENVIRONMENT</b>					
Operating ambient temperature	from 0 °C up to +40 °C (from 15 °C to 25 °C for maximum battery life)				
Relative humidity	0% - 90% without condensation				
Maximum altitude	1000 m without derating (max. 3000 m)				
<b>CABINET</b>					
Dimensions W x D x H	600 x 600 x 1425 mm				
Weight	depending on the configuration				
Degree of protection	IP20				
Acoustic level at 1 m (ISO 3746)	< 60 dBA				
<b>STANDARDS</b>					
Safety	EN 62040-1				
EMC	IEC 62040-2				
Performance	EN 62040-3				
Product declaration	CE				

(1) With the addition of a supplementary UPS module.

(2) Internally or externally expandable (additional cabinet with battery charger).

## An adaptable system



## Standard electrical features

- Separate bypass input on **Mod-TC 245**, **Mod-TC 260**, **Mod-TC 360** and **Mod-TC 390**.
- Signal contacts relay card.

## Electrical options

- Temperature sensor on **Mod-TC 360** and **Mod-TC 390**.

## Standard communication features

- 2 slots for communication options.
- MODBUS/JBUS RTU.

## Communication options

- Dry-contact interface.
- Remote mimic panel.
- **NET VISION**: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.