

# TTC Wärtsilä JOVYTEC L

## PRODUCT LEAFLET



UPS systems of the type TTC Wärtsilä JOVYTEC L are available with performance ranges of 6 kVA, 8 kVA or 10 kVA. Due to their online double converter technology these UPS systems meet the requirements of the highest protection class VFI-SS-111. During start-up a diagnostic system is activated verifying the status of the UPS system and the battery. The power related fan control system protects the system against overheating and ensures a long battery life.

### ONLINE UPS SYSTEM

As online systems (double converter / continuous transducers technology) the UPS systems of the Wärtsilä JOVYTEC L series protect against system interferences and failures of any kind in a secure and economic way. They ensure the supply of the connected consumer loads with a constant, specified frequency. The input frequency can vary between 45 HZ and 65 HZ. The five-language LCD display informs about voltage values, frequency, battery status and capacity utilisation of the UPS system.

### OPERATION MODES

The clear and user-friendly control and display panel enables the choice of four different operating modes: online mode, green mode, free-spin mode, and generator mode. In the online mode according to VFI-SS-111 the consumer load is permanently supplied via an inverter. The inverter provides a first quality sinusoidal voltage. Even in the

event of grid failure no disruption of supply occurs for the consumer loads. In green mode operation the consumer load is supplied via bypass. The UPS system switches to inverter supply in the case of voltage fluctuations or grid failure during operation and the load is transferred to the inverter almost without any interruption. In green mode operation the efficiency can be increased to more than 98%.

In free-spin mode the input frequency of the UPS systems can vary between 45 and 65 Hz. Thereby TTC Wärtsilä JOVYTEC L keeps the output frequency absolutely stable. The frequency parameters can be set via software.

In generator mode the TTC Wärtsilä JOVYTEC L systems prevent frequent switching in the event of distortions of the output voltage of the generator. Due to this operating mode the exposure of the batteries is considerably reduced. At the same time a better operational safety of the consumer loads is achieved.

Tab.1 Type Overview TTC Wärtsilä JOVYTEC L

### TYPES TTC Wärtsilä JOVYTEC L

	Dimensions UPS without additional battery cabinet W x H x D [mm]	Weight UPS without additional battery cabinet [kg]	Autonomy times [min]	
TTC Wärtsilä JOVYTEC L 6000	257 x 700 x 590	123 / 174	0 - <b>8*</b> - 20 - 30 - 60 - 120 - 150 - 180	
TTC Wärtsilä JOVYTEC L 8000	342 x 880 x 740	132 / 185 / 234 / 238	0 - <b>5*</b> - <b>15*</b> - <b>20*</b> - 45 - 70 - 110 - 150	further autonomy times on request
TTC Wärtsilä JOVYTEC L 10000	342 x 880 x 740	132 / 234	0 - <b>10*</b> - 17 - 30 - 55 - 90 - 110 - 180	

\* with integrated battery,  
the other autonomytimes can be realized with additional  
batteries and battery cabinets

**TECHNICAL DATA**

Power	6 kVA	8 kVA	10 kVA
cos phi 0,7 ind.	4200 W	5600 W	7000 W

**INPUT**

Voltage	230 V standard, further voltages on request Input voltage: 168 - 276 V (0-100 % load) 140 - 199 V (0-70 % load) 120 - 139 V (0-40% load)		
Current	23A	31A	39 A
Phases	single phased		
Frequency	50 Hz / 60 Hz $\pm$ 3 Hz		
Efficiency	0,98		
Battery:	sealed, lead acid batteries		
Autonomy times	see Tab.1 page 1 - autonomy times		
Direct current link voltage	240 V		

**OUTPUT**

Voltage	230 V standard (208/220/240 V adjustable via panel); further voltages on request		
Frequency	50 Hz / 60 Hz		
Efficiency	cos phi 0,7 ind.		
THD	<3% at linear load		
Overload capacity	100 up to 125 % for 60 s, 125 - 150 % for 10 s		
Crest Factor	3:1		

**SETTING**

Noise level in approx. 1 m distance	<55 dB(A)	<65 dB(A)	<65 dB(A)
Temperature	0° C up to 40 ° C (15°C up to 25°C recommended, battery: 20° C)		
Humidity	0 % up to 95 %, no condensation		
Communication	RS232 interface		

**STANDARD FEATURES**

Electronical emergency stop possibility via potential-free contact  
 Connection via terminal for On / Off / Bypass  
 External battery connection for later enhancements  
 Seperate feeding for bypass and inverter  
 Power factor correction for sinusoidal current consumption  
 Acknowledgeable alarm  
 Galvanical isolation by built-in output transformer  
 Fixed connection via terminal  
 Adjustable rolls

**OPTIONS**

Multiplexer, relay card, USB-connection, software, manual bypass, SNMP adapter

**ONLINE UPS SYSTEM**

VFI /Double Converter Technology offers maximum safety for connected consumers / loads

**4 OPERATION MODES**

selectable via control panel

**ACTIVE POWER FACTOR CONTROL**

guarantees sinusoidal power consumption

**INTERFACES**

RS 232 interface

**POWER RELATED FAN CONTROL**

protects against overheating and extends the overall life of the fan

**ALARM SIGNALS**

via acknowledgeable signal buzzer and relay card or SNMP

Fig.1 TTC Wäertsilä JOVYTEC L

