



1:1
PHASE

OUTDOOR SERIES

Single Phase Input
Single Phase Output
UPS

1 - 10 kVA





OUTDOOR



MEDICAL



INDUSTRY



EMERGENCY



OUTDOOR SERIES

Outdoor series provides constant, reliable backup power for Outside Plant, Access Control, Security, Public Utility and Telecommunications applications in a compact all-in-one enclosure.

- Compact, integrated UPS system designed to operate in extreme environments
- Online double conversion mode, according to IEC 62040.
- Low noise level and higher fan life time with intelligent fan speed control.
- Local and remote monitoring and control via RS232 port and optional Ethernet SNMP interface
- A wide operating temperature range of -20 to 50°C is suitable for most OSP operating environments
- Small footprint and easy maintenance
- Temperature compensated battery charging protects batteries from overcharging at extreme temperatures, extending the life of the battery

OUTDOOR SERIES

MODEL		OTT101U2 OTT101U1	OTT102U2 OTT102U1	OTT103U2 OTT103U1	OTT106U2 OTT106U1	OTT110U2 OTT110U1
Output Power Factor		1	2	3	6	10
Input						
Input Voltage Range		220, 230, 240 Vac $\pm 20 \pm 20$ (At full load)				
Input Frequency Range		50/60 Hz $\pm 5\%$ (Auto-sensing)				
Phase		1Ph+N+PE				
Power Factor		≥ 0.99				
Output						
Output Voltage		220/230/240 Vac 1Ph+N+PE				
Voltage Regulation		$\pm 2\%$				
Frequency		50/60 Hz				
Overload		125% 60 sec, 150% 10 sec				
Crest Factor		3:1				
Output Power Factor		0.9 (U2 Model) / 1 (U1 Model)				
THD of Output Voltage		$\leq 2\%$ (linear load), $\leq 5\%$ (non-linear load)				
Transfer Time	Online Mod - Battery Mode	0				
	Inverter - Bypass	4 ms (typical)				
Battery Mode Waveform		Pure Sinus				
Outputs		2xIEC Type + 1xSchuko or 2xSchuko or 4xIEC			Clemens	
Eco Mode & Frequency Converter		Optional				
Efficiency						
Online Mode*		Up to 95% (%50 load) // Up to %93 (%100 load)				
Battery						
Battery Type		12 V / Maintenance-free lead acid batteries (Gel & Li-On battery optional)				
Battery Qty		2 x 7/9 Ah	4 x 7/9 Ah or 6 x 7/9 Ah	6 x 7/9 Ah or 8 x 7/9 Ah	16 x 7/9 Ah or 18 x 7/9 Ah or 20 x 7/9 Ah	
Charge Time		6/8 hours 90% capacity (typical)				
Charge Current		1A (max) - 10A (with External Charger)				
Automatic Battery Test		Present				
Charge Voltage		24VDC	48VDC or 72VDC	72VDC or 96VDC	192VDC or 216VDC or 240 VDC	
Physical						
Dimensions D x W x H (mm)		338,5 x 551 x 375			Consult	
LCD Display		Standard				
Environmental						
Operating Temperature		$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$				
Humidity		0 - 95% (non-condensing)				
Altitude		<1000m				
Noise Level (at 1 meter)		<45 dBA				
Communication						
Standard		RS-232 and USB				
Optional		SNMP, Dry Contact, Modbus, EPO				

*For 2 and 3 kVA at 50% load



INNOVATIVE ENERGY SYSTEMS

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The company reserves the right to change specifications and designs without notice.