

# Technical Data *PROTON* series

MODEL	P-401	P-402	P-403	P-411	P-412	P-413	P-421	P-422	P-423	P-431	P-432	P-433	P-441	P-442	P-443	P-451	P-452	P-453	P-461	P-462	P-463	P-471	P-472	P-473	P-481	P-482	P-483	P-491	P-492	P-403
Power - kVA	0.6		1			1.5			2			3			4			5			6.5			7.5			10			
<b>Input</b>																														
Phases	1-Ph																													
Voltage	220 / 230 / 240 V $\pm$ 20% (100 / 110 / 115 / 120 / 127 V on request)																													
Frequency	50 / 60 Hz $\pm$ 5%																													
<b>Output</b>																														
Wave-form	SINE WAVE																													
Harmonic distortion	$<$ 2%																													
Crest factor (non-linear load 75%)	2 : 1																													
Voltage	220 / 230 / 240 V $\pm$ 1% (100 / 110 / 115 / 120 / 127 V on request)																													
Frequency	50 / 60 Hz $\pm$ 0.2%																													
Overload	125% for 10 min, 150% for 1 min, 200% for 0.1 sec.																													
Efficiency	$>$ 92%																													
Static switch mains-ups	Transfer time $<$ 2 ms																													
<b>Batteries</b>																														
Type	Sealed lead-acid (NiCd / Li-Ion / NaNiCl <sub>2</sub> on request)																													
Restored energy time	4 hours for 90% charge level																													
Stored energy time - h	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
<b>Protections</b>	Overload, overtemperature, min/max battery voltage, min/max input voltage, min/max inverter voltage, synchronism																													
Short-circuit	With electronic protection																													
EMI Suppression	EMI/RFI Filter																													
<b>Signals</b>																														
LED	Mains, Output, Battery, Overload, Fault																					On, Stand-by, Fault								
Display	Optional																					Standard								
Acoustic	Battery mode, low battery, overload, overtemperature, fault																													
Computer interface	RS232 - RS485 - SNMP - CAN (optional)																													

<b>Environmental</b>	
Temperature	0°C ÷ 50°C
Non-condensing humidity	0% ÷ 95%
Noise (at 1 m)	< 60 dBA
Protection rating	IP20
<b>Dimensions</b>	
W x D x H - mm	Request technical data
<b>Weight - kg</b>	Request technical data
<b>UPS Classification according EN 62040-3</b>	Class VFI
<b>CE Marking</b>	2014/30/EU; 2014/35/EU
<b>Compliance with the standards</b>	UPS: EN 60146-1-1, EN 62040-1-1, EN 62040-1-2, EN 62040-2, EN 62040-3, EN 60742; EMC: 2014/30/EU; Low voltage: 2014/35/EU



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