

## *Technical Data PROTON series*

<b>MODEL</b>	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	Monophase																													
Voltage	230 V ± 20%																													
Frequency	50 Hz ± 5%																													
<b>Output</b>																														
Wave-form	SINE WAVE																													
Harmonic distortion	< 2%																													
Crest factor (non-linear load 75%)	2 : 1																													
Voltage	230 V ± 1%																													
Frequency	50 Hz ± 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																													
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% ÷ 90%
Noise (at 1 m)	< 60 dBA
<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>	EEC 73/23; EEC 89/336; EEC 92/31
<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: 89/336, 92/31; Low Voltage: 73/23, 93/68



Factory - Head Office

S. P. km 5,300 C/da San Cusumano - 91100 Trapani - Italy

Tel. +39 0923 562794 - Fax +39 0923 567880

Http://www.layer.it - E-mail: layer@layer.it