

Technical Specifications Flexi 3.0 – 3-Phase Hybrid Storage Inverter (36 – 60 kW)

	EUES-PDT3002	EUES-PDT3602	EUES-PDT4002	EUES-PDT5002	EUES-PDT6002
PV Input Data					
Max. DC Power (W)	45000	54000	60000	75000	90000
Max. DC Voltage (V)			1100		
MPPT Voltage Range (V)			200-1000		
MPPT Full Power Voltage Range (V)			500-850		
Rated Input Voltage (V)			620		
Start-up Voltage(V)			200		
Max.Input Current (A)	38*2		38*3	40*3	38*4
Max. Short Current (A)	48*2		48*3	48*3	48*4
No. of MPPT Tracker/No. of PV String	2/5		3/6	3/7	4/8
Input Connector Type			MC4		
AC Output Data					
Nominal Output Power (W)	30000	39600	44000	55000	60000
Max. Output Power (VA)	33000	36000	40000	50000	60000
Max. Output Current (A)	48	60	65	80	96
Nominal Output Voltage(V)			3P+N+PE / 3P+PE 230/400		
Grid Voltage Range		260Vac-519Vac (according to local standard)			
Nominal Output Frequency(Hz)		50/60			
Grid Frequency Range		45-55Hz/55-65Hz (according to local standard)			
Output Power Factor		1 default (adjustable from 0.8 leading to 0.8 lagging)			
Output Current THD		<3%			
Efficiency					
Max. Efficiency (%)	98.50	98.65	98.65	98.80	99.00
Euro Efficiency (%)	98.10	98.20	98.25	98.45	98.50

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Protection					
PV Reverse Polarity Protection			Yes		
PV Insulation Resistance Detection			Yes		
AC Short Circuit Protection			Yes		
AC Over Current Protection			Yes		
AC Over Voltage Protection			Yes		
Anti-islanding Protection			Yes		
Residual Current Detection			Yes		
Over Temperature Protection			Yes		
Integrated DC Switch			Yes		
Surge Protection			Integrated (Type II)		
Smart IV Curve Scanning			Yes		
Quick Arc Fault Circuit Interruption			Optional		
General Data					
Dimension (W * H * D, mm)	480*485*210		710*470*236		
Weight (kg)	26		44		51
Protection Degree			IP66		
Enclosure Material			Aluminum		
Topology			Transformerless		
Humidity Range			0-100%		
Operating Temperature Range (°C)			-25 to 60		
Communication Interface		RS485/WiFi/Wire Ethernet/GPRS (optional)/ Sunspec			
Cooling Concept		Intelligent Fan Cooling			
Max. Operation Altitude (m)		±4000			
Night Power Consumption (W)		<1			
Certifications and Standards					
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-11, EN61000-3-12				
Safety Standard	IEC 60068, UL1741, EN62109				
Grid-connection	IEEE1547, CSA C22.EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, 999, IEC61727				