

Technical Specifications Flexi 3.0 – 3-Phase Hybrid Storage Inverter (20 – 30 kW)

	EUE3-PDT2002	EUE3-PDT2502	EUE3-PDT3002
FV Input			
Max. input power (kW)	30	37.5	45
Max. PV voltage (V)		1000	
Rated DC Input Voltage (V)		620	
DC Input Voltage Range (V)		150-1000	
MPPT Voltage Range (V)		150-850	
Full MPPT Range (V)		500-850	
Start-up Voltage (V)		160	
Max. DC Input Current (A)	32x2	40x2	40x2
Max. Short Current (A)	48x2	60x2	60x2
No. of MPPT Tracker/Strings		2/4	
Battery Port			
Battery Nominal Voltage (V)	500	500	550
Battery Voltage Range (V)		150-800	
Max. Charge/Discharge Current (A)	50	60	60
Max. Charge/Discharge Power (kW)	20	25	30
Charging Curve		3 Stages	
Compatible Battery Type	Li-ion / Lead-acid / Sodium metal chloride battery		
AC Grid			
Nominal AC Output Power (kW)	20	25	30
Nominal Output Voltage (V)	30/22	37.5/22.5	45/33
Max. AC Output Current (A)	32	40	48
Nominal AC Voltage (V)		230/400	
Nominal AC Frequency (Hz)		50/60	
Power factor	1 default (- 0.8 - 0.8 adjustable)		
Current THD (%)	<3		
AC Load Output (Back-up)			
Nominal Output Power (kVA)	20	25	30
Max. continuous power (kVA)		230/400	
Nominal Output Frequency (Hz)		50/60	
Max. AC Output Current (A)	29	36.3	43.5
Peak Output Power	22kVA,60s	27.5kVA,60s	33kVA,60s
THDV (with linear load)	<3%		
Switching time (ms)	<10		
Efficiency			
Europe Efficiency (%)	97.80	98.00	98.10
Max. Efficiency(%)	98.30	98.50	98.50
Battery Charge/Discharge Efficiency (%)	98.00		

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Protection			
Reverse Polarity Protection		Yes	
Over Current / Voltage Protection		Yes	
Anti-Islanding protection		Yes	
AC Short current protection		Yes	
Leakage Current Detection		Yes	
Ground fault monitoring		Yes	
Grid Monitoring		Yes	
Enclosure Protect Level		IP65	
AC/DC Surge Protection		Type II	
General Data			
Dimension (W * H * D, mm)		558*535*260	
Weight (kg)	29	36	36
Topology	Transformerless		
Cooling Concept	Intelligent Fan		
Relative Humidity	0-100%		
Operating Temperature Range (°C)	-25 to 60		
Operating Altitude (m)	<4000		
Standby Consumption (W)	<5		
Display & Communication Interfaces	LCD, LED, RS485, CAN, WiFi, GPRS, 4G, Sunspec		
Certification & Approvals	NR5097, G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2, IEC62477-1		
EMC	EN61000-6-2, EN61000-6-3		