

## VDL ENERGY SYSTEMS

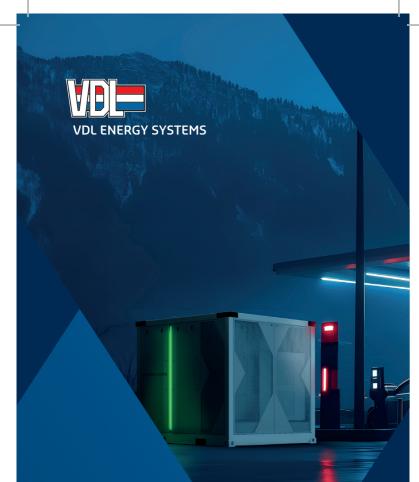
## e-PU10 Specifications

SYSTEM CONFIGURATION



SYSTEM CONFIGURATION	81110 000 /100	BULL 0 000 /000	81110 000 1000	
Configuration	e-PU10 200/400	e-PU10 300/600	e-PU10 360/800	
	SYSTEM PERFORM		0001111 (0001111)	
Rated power	360 kVA (200 kW)	360 kVA (300 kW)	360 kVA (360 kW)	
Rated total energy capacity	400 kWh	600 kWh	800 kWh	
Rated netto AC energy output	360 kWh*(1)	530 kWh*(1)	720 kWh*(1)	
Rated current	520 A			
Voltage	400/230* +/- 10%			
Frequency	50 Hz +/- 5%			
Charge/discharge efficiency *(4)	>92%			
Cooling/heating	Heat pump / Liquid cooled			
AC Power max output;		edthrough = 913 kVA Out	tput (1200A) *(2)	
AC Power input minimum	32 A			
CONNECTIONS				
AC-in	2 Sets Powerlock 400 A (PE, L1,L2,L3,N)			
AC-in rated current	2 Sets Powerlock (PE, L1,L2,L3,N*), CEE 32 A/63 A *(2)			
AC-out rated current	1200 A *(2)			
Stand-by supply	CEE 32 A			
Grid supported	TN-S, TN-C, IT			
BATTERY MODULES				
Chemistry	LiFePO4			
ThermalMangement	Liquid cooled			
Expected life time (65% SOH)	>10 years		<u> </u>	
SYSTEM DATA				
Dimensions	2991 x 2438 x 2591 m	m 10ft ISO		
Weight	7000 ± 250 kg	8250 ±250 kg	9500 ±250 kg	
Operational temperature	-20 / +40 °C (>30 °C d	e-rating)		
System consumption	De-energized 150W / Energized 2.8 kW			
Noise level	Appr.68 dBA@ 1m			
IP rating container	IP55			
Altitude	3000 m, derating abo	ve 1000m		
SYSTEM MODES				
Mode: Grid forming	400 V or 230 V AC net	400 V or 230 V AC network		
Mode: Grid following	Parallel tomaingrid	Parallel tomaingrid		
Mode: Peakshaving over input	Automatic mains failu to 700% stepload *(3)	Automatic mains failure with back synchronization, minimum 32 A with up to 700% stepload *(3)		
Mode: Peakshaving	With external measurementpoint up to100 m frome-PU10 *(3)			
(external measurement)				
Mode: Back-up (AMF)	Seamless shifting from grid following to microgrid, by controlling AC-in *(			
Mode: Smart generator link	Advanced generator control (Fixed power, Droop, Isochronous) over AC-In *(3)			
Mode: Parallel operation	Coupling of multiple systems in microgrid through drooping			
Mode: Load sharing mode	Peakshaving over input with start/stop for external genset, Automatic mains failure with back synchronization, minimum 32 A with up to 700% stepload *(3)			
Load balancing		Peakshaving external measurement point up to 100 m, with start/stop for		
COMMUNICATION & LOGISTIC				
Interface	Touch HMI, Online po	rtal		
Protocols (option)	Modbus TCP/IP, Profinet (for external controller)			
Remote monitoring/control		IOT Platform VDL PowerNet *(2)		
External communication	4G, RJ45 Ethernet			
Data logging	Realtime 100 ms, Historical 1 / 15 Min			
Transportation		Forklift pockets, Twistlocks corner blocks at bottom		
PROTECTION & SAFETY	- Johnne pockets, TWISC	TOTAL TOTAL BIOCKS AC DO		
Electrical system	Short circuit, Overcurrent protection, Residual current monitoring, Insulation monitoring (only in IT), Surge protection			
Fire detection	Smoke detection, CO detection			
System monitoring		Advanced system monitoring, Battery cell, Inverter stack, Cooling system, Enclosure, Connection panel		
CERTIFICATIONS & STANDARDS				
System	PGS37-1, IEC62933-5-	2		
Battery modules		UN38.3 , EC62619, NEN4288, UL9540A		
EU directives	CE, Low Voltage Direc	CE, Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, EU BatteryRegulation2023/1542		
	Jotter / Regulation 202	-,		

- Ambient temperature 23°C, Power output 300 kW
  Optionally available
  Operation mode only available in combination with e-PU10 option packages
  Auxiliary power consumption not included





Discover the **e-PU10** 

**POWER FOR TOMORROW**