

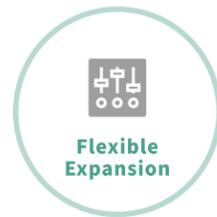


Quanta

Features



Flexible Installation: Combines PV and energy storage in one unit with a small footprint, occupying <math><1.05\text{m}^2</math>.



Flexible Expansion: Supports off-grid operation with up to 10 units in parallel, expanding capacity to 600kWh.



Efficient Control: Supports PV with storage, peak shaving and valley filling, microgrid operation, emergency backup power, and seamless off-grid switching time of less than 10 ms.



Certification	
Safety Standards	IEC62109-1/-2
EMC Standards	EN61000-6-1/-3 IEC61000
Grid Connection Standards	AS4777.2:2020 NRS097-2-1:2017 EN 50549-1 for Czech VDE-AR-N 4105:2018 EN50549-1:2019+AC:2 G98 G99, OVE-R25 EN50549-1:2019 for Poland A&B

Datasheet

Model	QA-C-D-LV-P0025E0060-51
Battery Side Parameters	
Cell type	100 Ah(LFP)
Rated Charge/Discharge Current	50 A/50 A
Maximum Charge/Discharge Current	65 A/65 A
Number of Batteries	8
Single Battery Pack Capacity	7.68 kWh
Rated Discharge Rate	<math><0.5\text{ C}</math>
Rated Voltage	614.4 V
Operating Voltage Range	537.6 V-700.8 V
Rated Capacity	60 kWh
PV Input Parameters	
MPPT Voltage Range	180 V-900 V
Rated Voltage	610 V
Maximum Input Voltage	1000 V
Maximum Input Power	37.5 kW
Maximum Input Current per String	36 A + 36 A
Maximum Short Circuit Current per String	40 A + 40 A
Number of MPPTs / Inputs per MPPT	2/2+2
Grid-Connected Port Parameters (AC)	
Rated Power	25 kW
Maximum Apparent Power	27.5 kVA
Rated Voltage	380 V/400 V, 3L/N/PE
Rated Frequency	50 Hz/60 Hz
Maximum Current	40 A
Maximum Three-Phase Unbalanced Output Current	43 A
Power Factor Range	~1 (0.8 inductive...0.8 capacitive)
Total Harmonic Distortion of Current (@ Rated Power)	<math><3\%</math>
Off-Grid Output Parameters (AC)	
Rated Output Power	25 kW
Maximum Apparent Output Power	27.5 kVA
Rated Voltage	380 V/400 V, 3L/N/PE
Rated Frequency	50 Hz/60 Hz
Maximum Three-Phase Unbalanced Output Current	43 A
Maximum Single-Phase Apparent Output Power	10 kVA
Peak Apparent Output Power (10s)	30 kVA
Diesel Generator End AC Parameters	
Rated Voltage	380 V/400 V, 3L/N/PE
Rated Frequency	50 Hz/60 Hz
Rated Input Apparent Power	25 kVA
System Parameters	
Dimensions	900*1150*1800 mm (W*D*H)
Battery Compartment Cooling Method	Constant temperature and humidity air conditioning
Protection Level	IP54
Corrosion Protection Level	C3 (C4/C5 optional)
Operating Temperature Range	-25°C~60°C (derating above 45°C)
Relative Humidity Range	0~95%RH (non-condensing)
Maximum Operating Altitude	<math><4000\text{ m}</math>
Fire Protection System	Detector, aerosol
System Communication Interface	RS485/CAN
Weight	920 kg