

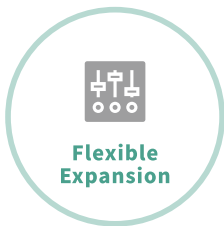


Quanta

Features



Integrated Design: Combines PV and energy storage in one unit with a small footprint, occupying <1.05m².



Flexible Expansion: Supports up to 10 units off-grid in parallel, expanding capacity to 1080 kWh.



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	CEI 0-21 NRS097-2-1:2017 VDE-AR-N 4105:2018

Datasheet

Model	QA-C-D-LV-P0050E0108-51
Battery Side Paraments	
Battery Cell	280 Ah(LFP)
Rated Charge/Discharge Current	140 A/140 A
Maximum Charge/Discharge Current	200 A/200 A
Number of Batteries	6
Single Battery Pack Capacity	17.92 kWh
Rated Discharge Rate	<0.5 C
Rated Voltage	384 V
Operating Voltage Range	336 V-438 V
Rated Capacity	100 kWh
PV Input Parameters	
MPPT Voltage Range	180 V-900 V
Rated Voltage	630 V
Maximum Input Voltage	1000 V
Maximum Input Power	75 kW
Maximum Input Current per String	36 A + 36 A + 36 A + 36 A
Maximum Short Circuit Current per String	40 A + 40 A + 40 A + 40 A
Number of MPPTs / Single MPPT Input Strings	4/2+2+2+2
Grid-Connected Port Parameters (AC)	
Rated Output Power	50 kW
Maximum Apparent Output Power	55 kVA
Maximum Input Power (W)	60 kW
Rated Voltage	380 V/400 V, 3L/N/PE
Rated Frequency	50 Hz/60 Hz
Maximum Output Current	79 A
Power Factor Range	~1 (0.8 inductive...0.8 capacitive)
Total Harmonic Distortion of Current (@ Rated Power)	<3%
Off-Grid Output Parameters (AC)	
Rated Output Power	50 kW
Maximum Apparent Output Power	55 kW
Rated Voltage	380 V/400 V, 3L/N/PE
Rated Frequency	50 Hz/60 Hz
Maximum Single-Phase Apparent Output Power	18 kVA
Peak Apparent Output Power (10s)	75 kVA
AC Parameters (Diesel Generator Side)	
Rated Voltage	380 V/400 V, 3L/N/PE
Rated Frequency	50 Hz/60 Hz
Rated Input Apparent Power	50 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 Resistance Level	C3(C4/C5 optional)
Operating Temperature Range (°C)	-25°C to 60°C (derating above 45°C)
Relative Humidity Range	0~95% RH (non-condensing)
Maximum Operating Altitude	<4000 m
Firefighting System	Detertor + aerosol fire extinguishing device + water firefighting
Explosion Protection	Passive pressure relief value
System communication Interface	RS485/CAN
Weight	1270 kg