

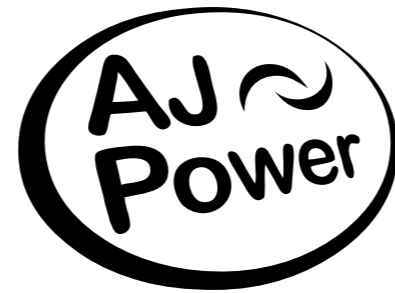
BATTERY ENERGY STORAGE SYSTEMS

QT 45/90





QT 45/90



Diesel generating sets worldwide

TECHNICAL DATA

Nominal Rated Power @ 25 °C		36 / 45 kW/kVA
Nominal Energy Storage Capacity		86.4 kW/h
Rated Voltage (50Hz)		230 / 400 Vac
Maximum Passthrough Current		100 A
Maximum Output Current (Boost mode)		125 A
Operating Temperature - discharging		-20 + 60 °C
Operating Temperature - charging		0 to +55 °C
Protection		Over Load, Over Temperature, Short Circuit, Adjustable Earth Leakage, RCBO on single phase outlets
Plug Inlets*		2 x 125 A Three Phase 5-Pin (IP67)
Socket Outlets *		1 x 125 A Three Phase 5-Pin, 3 x 32 A Single Phase 3-Pin (IP67)
		Each socket with circuit breaker protection
Automatic Generator Start / Stop		State-of-charge, Timer, Over-Load, Over-Temperature
Remote Monitoring		VRM via LAN, WiFi, GSM

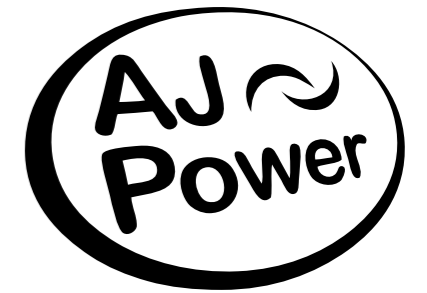
***Alternative socket options or power locks available on request.**

BATTERIES

Type		Polarium SLB48-100-135-5 - Generation 5
Quantity		18 Un
Voltage		48 VDC
Chemistry		Lithium Iron Phosphate (LFP)
DoD % (depth of discharge)		80
Energy Density		125 Wh/kg
Lifetime (80% DoD)		6000 Cycles
Battery Management System		Included



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INVERTERS

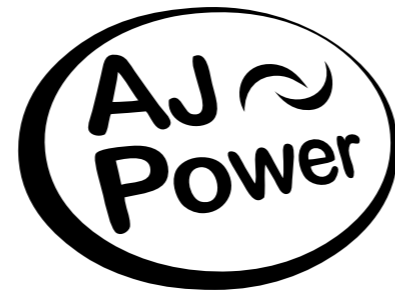
Type		Victron Quattro 48/15,000/200-100/100 (230 V)
Quantity		3 Un
Recharge Current		600 A
Total Nominal Power		45 kVA
Continuous Power		36 kW
Overload		
200% of Nominal Power		0.5 Seconds
150% of Nominal Power		5.0 Seconds
130% of Nominal Power		30 Minutes

CONTROL PANEL

Model		7" touch screen AJP customised HMI GX Touch 70. CERBO GX. AJP control module.
Remote Generator Start		2 wire remote start or Ethernet RJ45 (communication with genset controller - DSE or Comap)
Remote Communication		Victron VRM



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OPERATION



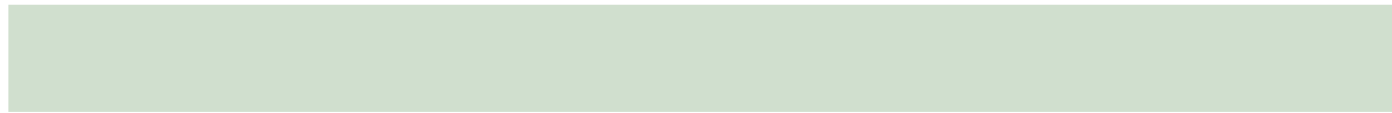
Discharging Autonomy

Discharge Autonomy @100% Nominal Power	1.92 h
Discharge Autonomy @ 66% Nominal Power	2.90 h
Discharge Autonomy @ 33% Nominal Power	5.81 h
Recharge @ 100% Current	2.25 h

Performance

Recommended Generator Size	60 kVA
Max Outlet Hybrid System	160 A

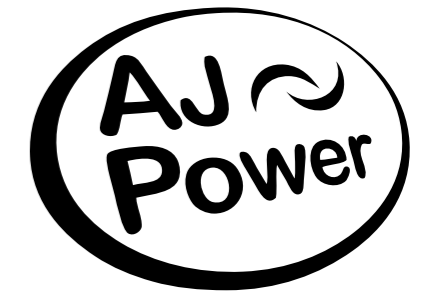
OPERATION - MECHANICAL



Dimensions L x W x H	2251mm x 1500mm x 1888mm
Weight	2505kg
Cooling	Air conditioner for temperature and humidity control Temperature range: -40°C to +55 °C R513a – low global warming potential (GWP) refrigerant 3 kW cooling capacity 1.25 kW heating capacity
Two Point Lift	Yes
Ingress Rating	IP66
Fork Pockets	Included
Dual Point Lift	Included

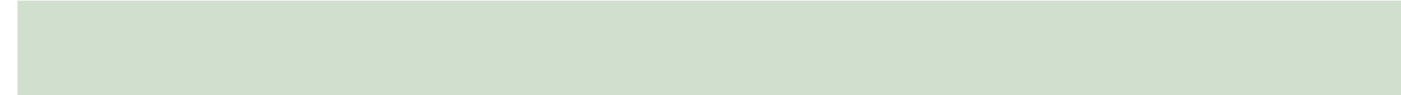


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OPERATION - SOLAR CHARGERS



Type	Victron Inverter RS Smart Solar 48/6000
Max Input Current	18 A
Max PV Voltage	450 V
Max PV Power @ 48V	4 kW
PV Connectors	MC4
Auxiliary Supply Outlet 230V@20A	32A Single Phase 3-Pin (IP67)

SCOPE OF SUPPLY

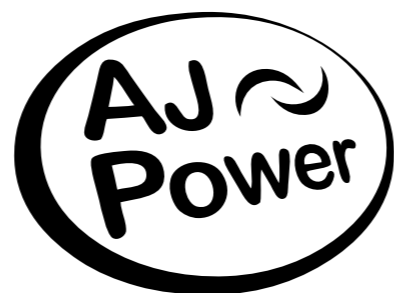


- Heavy duty canopy is high quality, manufactured from galvanised sheet steel suitably treated with polyester powder coated paint for additional durability. Includes fork pockets and two point lift.
- Emergency stop on canopy and control panel.
- Automatic precharge for battery protection.
- Earthing point (earth spike not included).
- Generator RJ45 / Remote start connectors.





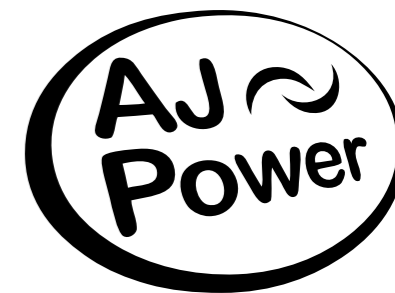
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BATTERY ENERGY STORAGE SYSTEMS

- Next-generation QT (Quietude) Battery Energy Storage System (BESS) Delivers reliable, ultra-quiet, emissions-free power
- Ideal for sites requiring consistent UPS or variable power demand
- High-performance, flexible energy storage solution
- Supports charging from renewables, grid or generator
- Enables efficient and sustainable power integration
- Available with single-phase and three-phase charging for wide application compatibility
- Intelligent generator integration activates only when battery recharge is required
- Reduced generator run hours lower wear and maintenance requirements
- Operates generator closer to peak fuel efficiency
- Delivers lower fuel consumption, reduced emissions and cost savings
- Advanced remote monitoring built into every QT unit
- User-friendly web interface with real-time performance data
- Enables report generation, alerts and simplified site management



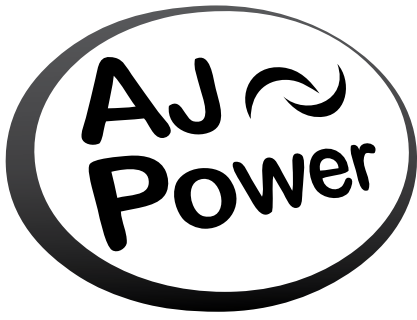
QT Range Overview

- QT 45/90 – 45 kVA inverter | 90 kVAh storage
- QT 30/60 – 30 kVA inverter | 60 kVAh storage
- QT 30/45 – 30 kVA inverter | 45 kVAh storage
- QT 15/30 – 15 kVA inverter | 30 kVAh storage

Key Benefits

- Significant noise and CO2 emissions reduction
- Reduced generator run time and fuel consumption - lower operating costs
- Enhanced generator performance through optimal load management
- Additional power capacity to support peak demand
- Immediate power support for motor starting, reducing the need for oversized generators





HEADQUARTERS

AJ Power Limited
1 Charlestown Drive
Craigavon
BT63 5GA
Northern Ireland
United Kingdom
Telephone +44 (0) 28 3836 1000
Fax +44 (0) 28 3836 1010

www.ajpower.net



facebook.com/ajpowerltd
twitter.com/ajpower
linkedin.com/company/ajpower



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