

Escape10 Series

SINGLE PHASE BESS SPECIFICATIONS

Designed with Australian components where possible, this BESS solution provides the ultimate outback solution when you are looking for a remote option. Built in a quality controlled environment to high standards ensures reliability out in the field.



SCALABILITY

Esca1121

Esca1151

Custom	90kW/∞kWh
Micro-Grids	Yes
Configurations	1PH

CONNECTION

Connection Styles	On-Grid & Off-Grid
Connection Types	1PH

RATIO

AC Output to Battery Capacity	1.00:3.04
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AC OUTPUT BESS

AC Voltage Output (Nominal)	240V	
AC Voltage Output Range	216V to 265V	
Feed-In Type	1PH	
AC Frequency (Nominal)	50Hz	
AC Frequency Range	45Hz to 55Hz	
Real Power, max continuous	7.5kW	15kW
Real Power, Short term (30s) (Island mode only)	18kW	36kW
Real Power, short term (1m) (Island mode only)	13kW	26kW
Real Power, short term (30m) (Island Mode Only)	11.25kW	22.50kW
Real Power, short term (60m) (Island Mode Only)	8kW	16kW
Apparent Power, max continuous	7.5kVA	15kVA
Maximum Supply Fault Current	10kA	10kA
Maximum Output Fault Current	86A	172A
Total Harmonic Distortion	<3%	
Power Factor Output Range	0.8 lagging to 0.8 leading	
AC Output to AC Input	AC Bus connected via Contactor	
Island Mode	Yes: <30ms	
Surge Protection	Yes (Type II)	

AC INPUT BESS

AC Input	Grid/Generator	
AC Voltage Input (Nominal)	240V	
AC Voltage Input Range	216V to 265V	
Feed-In Type	1PH	
AC Frequency (Nominal)	50Hz	
AC Frequency Range	45Hz to 55Hz	
Real Power Charge, max continuous	7.5kW	15kW
Apparent Power Charge, max continuous	7.5kVA	15kVA
Surge Protection	Yes (Type II)	

MONITORING, COMPLIANCE & ADDITIONAL FEATURES

MONITORING & CONTROL

Connection types	USB, Ethernet, RJ45
Remote Monitoring	3 level access: User, Technician, System Manager
Remote Configuration	Yes
Communications	Modbus, SNMP, Remote API, VPN Tunnel, DRM, RS458
3rd Party Control	Yes
VPP	Yes

COMPLIANCE

Certifications	AS4777.2:2021, IEC 62109-1, IEC 62109-2, IEC 62040-1, IEC 62477-1, IEC 62619-1, AS/NZS 62368.1:2018, UN38.3
Grid Connection	Australia
Emissions	EN61000-1, EN61000-2, EN61000-3, EN61000-4

SERVICE ABILITY

Field Serviceable	Yes
MTTR	Low to Medium
Design	Modular
Warranty	Refer to Warranty Agreement

OPTIONS

Custom Solutions	Custom solutions to suit project requirements 1PH, 2PH and 3PH Applications
Cooling	Temperature Controlled Cooling
Modems	4G/5G/Satellite
Disclaimer	These specifications are subject to change without notice. Data updates will be uploaded/linked to our website. All values provided at Standard Test Conditions (STC) at 25°C

CUSTOM REQUESTS

Scope to customise the systems means you can ensure your project needs are always being met. If you cannot find a pre-configured solution simply get in touch. We can work with you to design a one-of-a-kind BESS built specifically for you and your needs in Single, Dual or Three Phase configurations.

DC BATTERY PERFORMANCE

	Esca1121	Esca1151
Total Energy	38.0kWh	72.0kWh
Usable Energy @ 80% DoD	30.4kWh	60.8kWh
Internal Battery DC Voltage	51.2V	
Arc Flash Incident Energy IEm in Cal/cm2 (45)	TBA	
Arc Flash Incident Energy AFB in cm	TBA	
Battery Chemistry	LiPO4 Lithium ferro phosphate	
Battery Cell Construction	Cylindrical	

AC COUPLED SOLAR

AC Input Side	No Limit	
AC Output Side	7.5kW Generic (On-Grid only) 15kW Managed	15kW Generic (On-Grid Only) 30kW Managed
Brands	Any: Generic Fima: Managed Fronius: Managed	
Control	RS485	RS485

DC COUPLED SOLAR BESS

Power Output	8kW, 4032 per module (2)	20kW, 4032 per module (4)
Max PV Input Voltage	600V	
Max PV Input Current	20A	
Max PV Open Circuit Voltage	600V	
Number of MPPT's	2	4
Number of Inputs per MPPT	1	
Ground/Earth Fault Detection	Yes	
Peak Efficiency	98.70%	

INPUTS AND OUTPUTS

Assignable Relay Outputs	4 analogue, 3 digital
Assignable Relay Output specs	60Vdc 5mA

SYSTEM

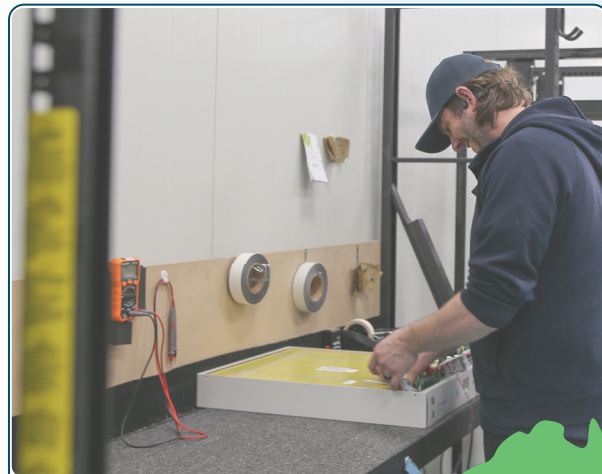
Round Trip Efficiency (System)	92%
System Idle Current (System)	TBA

MECHANICAL

Dimensions (H x W x D)	2160mm x 950mm x 850mm	2160mm x 1625mm x 850mm
Weight	1100kg	1400kg
Mounting Options	Floor	
Lifting Options	Forklift/Crane	

ENVIRONMENTAL

Operating Temperature Range	-10 to 50°C
Ideal Operating Temperature Range	0 to 45°C
Full Output Power	0 to 25°C
Operating Humidity (RH)	85% non-condensing
Storage Conditions	0 - 45°C (or as close to 25°C as possible)
Maximum Elevation	2000m
Environment	Outdoor
Ingress Rating	IP54
Wet Location Rating	Yes
Noise Level @ 1m	<60dBA
Cooling Battery Inverter	Fan Forced
Cooling Battery	Natural Convection
Cooling BESS Cabinet	Fan Forced



An Australian Product, Built for all Applications & Locations

We take our Australian made authenticity seriously. Our cabinet/battery solutions are not only designed in Australia, but also built, right down to the construction of busbars.

Supporting local manufacturers/suppliers gives us the opportunity to give back to the community and create relationships within surrounding industries vital to the creation of our products and solutions.

Share your next install and
join the PowerPlus community!
#powerplusenergy

Powered by LiFe4838P, our Premium Safe Lithium Battery.

Reliable energy storage is vital when setting up off-grid or on-grid systems. Rely on our premium LiFe P Series to support your projects, no matter the circumstance.



- ✓ New Advanced Status LED
- ✓ Cylindrical Lithium Cells
- ✓ In-Built Self-Managed BMS