

Escape5 – 'Mini Escape20'

Designed with our Escape20 architecture but down-sized for smaller scale projects! Ideal on- and off-grid single phase BESS solution for residential, UPS and small data back-up applications.

-  Single Phase
-  Pre-assembled, Installation Ready
-  Modular & Scalable
-  Integrated Monitoring



AC OUTPUT

ESCA0510-001-001

Output Phase Configuration	1-Phase
AC Output Voltage	230V
AC Output Frequency	50Hz
MAX Continuous AC Output Power	9.6kW
MAX Surge AC Output Power	12kW
MAX Apparent AC Output Power	12kVA
Fault Current <20ms	124A
Fault Current <15s	90A
Power Factor Range	0.8 lagging to 0.8 leading
UPS Mode	0ms
Total Harmonic Distortion	<3%

AC INPUT

AC Input Type	Grid/Genset
Nominal AC Input Voltage	230V
AC Input Voltage Range	230V +/- 25%
Input Phase Configuration	1-Phase
Nominal AC Input Frequency	50Hz
AC Input Frequency Range	47Hz to 53Hz
MAX Continuous AC Input Power	10.8kW
MAX Apparent AC Input Power	12kVA
Surge Protection	Type II

BATTERY

Total Energy	23.5kWh
Useable Energy 90% DOD	21.15kWh
Useable Energy 80% DOD	18.8kWh
Nominal DC Voltage	51.2V
Battery Chemistry	LFP
Battery Cell Type	Cylindrical

EFFICIENCY

AC to AC	96.00%
DC to AC	93.70%
AC to DC	93.70%
AUX Power Consumption	30W

ENVIRONMENT

Operating Ambient Temperature Range	-6 to 56°C
Nominal Ambient Temperature Range	15 to 30°C
MAX Output Power Ambient Temperature Range	10 to 40°C
Storage Temperature with Battery	0 to 35°C
Storage Temperature without Battery	-10 to 60°C
Humidity	95% - non condensation
MAX Elevation	1500m
Location	Indoor
IP Rating	IP21
Noise Level @1m	61dB
Noise Level @3m	57dB
Noise Level @5m	<54dB
Cooling	Natural Convection

MECHANICAL

Dimensions (H x W x D)	1166 x 600 x 800mm
Mounting Options	Floor
Weight with batteries	334kg
Weight without batteries	154kg
Lifting Options	Caster Wheels

MONITORING & CONTROL

Connection Types	USB, Ethernet, RJ45
Remote Monitoring	User/Installer/Admin
Remote Configuration	Yes
Communications	Modbus, SNMP, Remote API, VPN Tunneling, DRM, RS485
VPP Ready	Yes
3rd Party Control	Yes

Specifications correct at time of publication and are subject to change. Refer to website for latest information.

COMPLIANCE

Emissions	EN61000-1/2/3/4
Certification - Battery	IEC62619, AS62368, UN38.3
Certification - Inverter	AS4777, IEC62109, IEC 62040
Service	
Field Serviceable	Yes
Inverter Design	Modular Hot Swapable
Battery Design	Modular

WARRANTY

Battery	10 Years
Inverter	5 Years
Communication Equipment	5 Years
Switchgear/HVAC	2 Years
Enclosure	10 Years

CUSTOM CONFIGURATIONS

AC Input	1PH
AC Output	1PH
Communication Equipment	4g/5g/Satellite
AC Coupled PV	2:1 Ratio
AC Coupled PV Compatibility	SMA/Fronius
Multi-Cabinet Solutions	Up to 16 Cabinets
Harsh Environment Coating	Coastal, Sand/Dusty, Chemical

OPTIONAL MPPT

Inbuilt MPPT's / Inputs	Yes. 4 MPPT's. 1 per MPPT
MPPT Charging capacity (kW / A @51.2V)	3.2kW / 62.5A
Max PV Input Voltage (Voc)	430Vdc
MPP Voltage Range (Vmp)	85Vdc to 430Vdc
MPPT Voltage Startup	120Vdc
Max PV Input Current (Imp)	14A
Max PV Short Circuit Current (Isc)	20A
Operating Temperature Range	-40oC to +75oC (de-rates above 55oC)

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