Surge Protection

# Escape10 Series

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	Ye	es
Configurations	1F	РΗ
CONNECTION		
Connection Styles	On-Grid & Off-Grid	
Connection Types	1PH	
RATIO		
AC Output to Battery Capacity	1.00:	3.04
AC OUTPUT BESS		
AC Voltage Output (Nominal)	24	OV
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 (T	ype II)
AC INPUT BESS		
AC Input	Grid/Ge	enerator
AC Voltage Input (Nominal)	24	V
AC Voltage Input Range	216V to	
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

Yes (Type II)



### MONITORING, COMPLIANCE & ADDITIONAL FEATURES

MONITORING & CON	TROL
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.

Usable Energy @ 80% DoD         30 4Wh         60.8Wh           Internal Battery DC Voltage         51.2V           Arc Flash Incident Energy (Elem in Cal/cm2 (45)         TBA           Battery Chemistry         LiPO4 Lithium Terro phosphate           Battery Chemistry         LiPO4 Lithium Terro phosphate           Battery Cell Construction         Cylindrical           AC COUPLED SOLAR         No           AC Output Side         No           AC Output Side         No:           AC Output Side         No:           Brands         TS.KW Generic (On- Grid Only) 15KW Managed           Brands         RS485           DC COUPLED SOLAR BESS         RS485           Power Output         RS432           Max PV Input Voltage         GOUV           Max PV Input Voltage         GOUV           Max PV Input Surbard MPPT         1           Ground/Earth Fault Detection         Yes           Peak Efficiency         98.7V           INPUTS AND OUTPUTS         3 digital           Assignable Relay Output specs         GOUV           Softensity         1 douxing           System Idle Current (System)         92%           System Idle Current (System)         92%           Sof	DC BATTERY PERFORMANCE	Esca1121	Esca1151	
Internal Battery DC Voltage         SIJIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Total Energy	38.0kWh	72.0kWh	
Arc Flash Incident Energy IEm in Calkm2 (45) Arc Flash Incident Energy AFB in cm Battery Celmistry Battery Celmistry Eattery Celmistry AC COUPLED SOLAR AC Output Side AC Output Side Control DC COUPLED SOLAR BESS Control DC COUPLED SOLAR BESS DC COUPLED SOLAR BESS Control DC COUPLED SOLAR BESS DC COUPLED SOLAR BESS SUBJECT (SUBJECT) Max PV Input Coursent Max PV Input Coursent Max PV Input Coursent Max PV Input Solage Max Munt Input PV F Max Max Max Max Max Max Max Max Max Max	Usable Energy @ 80% DoD	30.4kWh	60.8kWh	
IEm in Calvon2 (45)         or         IEA           Are Flash Incident Energy AFB in cm         TBA         IPO4 Lithium ferro phosphate           Battery Cell Construction         Cylindrical         CoUPLED SOLAR           AC COUPLED SOLAR         No         Intermative Solar (On-Grid Only) 15kW Managed           AC Output Side         7.5kW Generic (On-Grid Only) 15kW Managed         15kW Managed           Brands         Any: Generic Firma: Managed         Fronius: Managed           Brands         RS485         RS485           DC COUPLED SOLAR BESS         Power Output         8kW, 4032 per module (2)         module (4)           Max PV Input Voltage         600∪         module (4)         module (4)           Max PV Open Circuit Voltage         600∪         4         Max PV Open Circuit Voltage         0000           Max PV Open Circuit Voltage         600∪         4         4         1           Ground/Earth Fault Detection         Yes         4         4         4           Number of Inputs per MPPT         1         1         1         1         1           Ground/Earth Fault Detection         Yes         3 digital         4         3         3         3         3         3         3         3         3         3 </td <td>Internal Battery DC Voltage</td> <td>51.</td> <td>2V</td>	Internal Battery DC Voltage	51.	2V	
Battery Chemistry         LIPO4 Lithium farror phosphate           Battery Cell Construction         Cylindrical           AC COUPLED SOLAR         No           AC Input Side         No           AC Output Side         7.5KW Generic (On- Grid only)         15kW Generic (On- Grid Only)           Brands         Any: Generic (On- Grid Only)         15kW Generic (On- Grid Only)           Brands         Any: Generic (On- Grid Only)         15kW Managed           Brands         Any: Generic (On- Grid Only)         15kW Managed           Control         Any: Generic (On- Grid Only)         1000000000000000000000000000000000000	6,	ТВА		
Battery Cell Construction AC COUPLED SOLAR AC Input Side AC Output Side Brands CFITTER: Managed AT Selever Control AC Output Side AC Output Side Brands AC Output Side AC Output Solar BESS AC OUTPUED SOLAR BESS AC OUTPUED SOLAR BESS AC OUTPUTS AC OUtput Current AC V Input Voltage AC OUtput Side AC OUTPUTS AND OUTPUTS AC AND AND OUTPUTS AC AND AND AC A Analogue, 3 digital Ac Assignable Relay Output specs AC 60V  AC SYSTEM AC CHANICAL DImensions (H x W x D) AC AC ANT A SOMM X AC AND AC A ANALOGUE AC ANT A A A A A A A A A	Arc Flash Incident Energy AFB in cm	TE	BA	
AC COUPLED SOLAR AC Input Side No Limit AC Output Side 7.5kW Generic (On- Grid Only) 15kW Managed 7.5kW Generic (On- Grid Only 15kW Managed 7.5kW Generic (On- Grid Only 15kW Managed 7.5kW Generic (On- Grid Only 15kW Managed 7.5kW Generic (On- Generic (System) 7.5kW Generic (On- System Idle Current (System) 7.5kW Generic (On- System Idle Curr	Battery Chemistry	LiPO4 Lithium f	erro phosphate	
AC Input Side No Limit AC Output Side 7.5kW Generic (On- Grid only) 15kW Managed 8.0kW Managed Any: Generic Con- Grid only) 15kW Managed Any: Generic Con- Grid only) 15kW Managed Any: Generic Con- Fima: Managed Fronius: Managed 8.0kW Managed Control R\$485 85485 DC COUPLED SOLAR BESS Power Output 8.8kW, 4032 per module (2) 20kW, 4032 per Max PV Input Voltage 6.0V Max PV Input Voltage 6.0V Number of MPPT's 2 4 4 Number of Inputs per MPPT 1 1 Ground/Earth Fault Detection Yes Peak Efficiency 9.8.70× INPUTS AND OUTPUTS Assignable Relay Outputs 4 analogue. 3 digital Assignable Relay Outputs 9.8.70× INPUTS AND OUTPUTS System Idle Current (System) 7B MECHANICAL Dimensions (H x W x D) 2160mm x 950mm x 850mm Weight 1100kg 12.00km x 1100kg 100kg 100kg Mounting Options Forklift/Cane ENVIROMENTAL Operating Temperature Range 0 to 45°C Ideal Operating Temperature Range 0 to 45°C Operating Temperature Range 0 to 45°C Operating Humidity (RH) 85% non-codensing Storage Conditions 0 -45°C (or as closer to 25°C as possible) Maximu Elevation 200 Maximu Elevation 200 Maximu Elevation 200 Maximu Elevation 4.00 Maximu Elevat	Battery Cell Construction	Cyline	drical	
AC Output Side       7.5kW Generic (On Grid only) 30kW Managed         Brands       Any: Generic Fima: Managed         Brands       Any: Generic Fima: Managed         Control       RS485         DC COUPLED SOLAR BESS       RS485         Power Output       8kW, 4032 per module (2)       20kW, 4032 per module (4)         Max PV Input Voltage       600         Max PV Input Voltage       600         Max PV Open Circuit Voltage       600         Number of Inputs per MPPT       1         Ground/Earth Fault Detection       Y=         Peak Efficiency       98.70*         System KIB       3 digital         Assignable Relay Outputs       4 analogue. 3 digital         Assignable Relay Outputs       600 C         System KIB       2160mm x 1625mm x 3 digital         System KIB       2160mm x 1625mm x 850mm         Weight       1100kg       1400kg         Mounting Options       Forklit//crue         ENVIRONMENTAL       2160mm x 1625mm x 850mm         Veight       1100kg       1400kg         Mounting Options       Forklit//crue         ENVIRONMENTAL       ENVIRONMENTAL         Operating Temperature Range       0 to 45°C	AC COUPLED SOLAR			
AC Output Side     Grid only) <sup>1</sup> 15kW Managed     Grid Only) <sup>1</sup> 30kW Managed       Brands     R:Generic Fina: Managed Fronius: Wanaged Fronius: Wanaged       Control     R:S485     R:S485       DC COUPLED SOLAR BESS     R:S485     R:S485       Power Output     8kW, 4032 per module (2)     20kW, 4032 per module (2)     20kW, 4032 per module (4)       Max PV Input Current     20     4       Max PV Open Circuit Voltage     600/U     4       Number of MPPT's     2     4       Number of Inputs per MPPT     1     1       Gridount/Earth Fault Detection     Yes     4       Peak Efficiency     98.7///     3       Potestamble Relay Outputs     4 analogue.s 3 digital       Assignable Relay Output specs     600/U     5m       System Idle Current (System)     92.////////////////////////////////////	AC Input Side	No Limit		
Brands Finna: Managed Fronitus: Managed Fronitus	AC Output Side	Grid only)	Grid Only)	
DC COUPLED SOLAR BESS         Power Output       8kW, 4032 per module (2)       20kW, 4032 per module (4)         Max PV Input Voltage       600∨         Max PV Input Current       20A         Max PV Open Circuit Voltage       600∨         Number of MPPT's       2       4         Number of Inputs per MPPT       1       1         Ground/Earth Fault Detection       Yes       98.70%         INPUTS AND OUTPUTS       600√       500√         Assignable Relay Outputs percs       600√       500√         SYSTEM       4 analogue, 3 digital       4 analogue, 3 digital         Assignable Relay Outputs specs       600√       500√         SYSTEM       92.%       500mm       500√         BrechANICAL       92.%       500mm	Brands	Fima: Managed		
Power Output8kW, 4032 per module (2)20kW, 4032 per module (4)Max PV Input Voltage $600V$ Max PV Open Circuit Voltage $600V$ Max PV Open Circuit Voltage $600V$ Number of Inputs per MPPT $1$ Ground/Earth Fault DetectionYesPeak Efficiency $98.70\%$ INPUTS AND OUTPUTS $60V \ 5mA$ Assignable Relay Outputs $4$ analogue, 3 digitalAssignable Relay Outputs pers $60V \ 5mA$ SYSTEM $92\%$ Bound Trip Efficiency (System) $92\%$ System Idle Current (System) $92\%$ MECHANICAL $2160mm \times 950mm \times 850mm$ Weight1100kg1100kg1400kgMounting Options $Floor$ EnVIRONMENTAL $0 to 45^{\circ}C$ Operating Temperature Range $0 to 45^{\circ}C$ Full Output Power $0 to 50^{\circ}C$ Ideal Operating Temperature Range $0 to 45^{\circ}C$ Full Output Power $0 to 50^{\circ}C$ Ideal Operating Temperature Range $0 to 45^{\circ}C$ cas possible)Maximum Elevation $2000m$ Environment $0 to 45^{\circ}C$ core sclose to $25^{\circ}C$ as possible)Maximum Elevation $2000m$ Environment $0 to 45^{\circ}C$ Moise Level @ 1m $60 dBA$ Cooling Battery InverterFan ForcedCooling Battery InverterFan ForcedCooling BatteryNatural $Covection$	Control	RS485	RS485	
Power Outputmodule (2)module (4)Max PV Input Voltage6000000000000000000000000000000000000	DC COUPLED SOLAR BESS			
module (2)         module (4)           Max PV Input Voltage         600√           Max PV Open Circuit Voltage         600√           Max PV Open Circuit Voltage         600√           Number of MPPT's         2         4           Number of Inputs per MPPT         1         1           Ground/Earth Fault Detection         Yes         1           Peak Efficiency         98.70%         1           Assignable Relay Outputs         4 analogue , 3 digital         3           Assignable Relay Outputs specs         60Vdc 5mA         1           System         1         2         1           Round Trip Efficiency (System)         92%         1         1           System Idle Current (System)         92%         1         1400kg           MetCHANICAL         1100kg         1400kg         1400kg           Mounting Options         Forklit/Crare         1         1400kg           Mounting Options         0 to 5°C         1         1           Operating Temperature Range         0 to 25°C         1         1           Operating Temperature Range         0 to 25°C as possible)         1         1           Operating Humidity (RH)         85% non-comlensing         1 <td>Power Output</td> <td></td> <td></td>	Power Output			
Max PV Input Current2∪AMax PV Open Circuit Voltage60UVNumber of MPPT's2Number of Inputs per MPPT1Ground/Earth Fault DetectionY=sPeak Efficiency98.70%INPUTS AND OUTPUTSAssignable Relay OutputsA analogue, 3 digitalAssignable Relay Output specs60Vdc 5mASYSTEMBound Trip Efficiency (System)92%System Idle Current (System)92%System Idle Current (System)92%MECHANICALDimensions (H x W x D)2160mm x 950mm x 850mm850mm x 850mmStorm x 850mmStorm x 850mmMeight1100kg1400mm x 1625mm x 850mmXStorm x 850mmStorm x 850mmStorage OptionsFirld Output PowerOutput Storage ConditionsOutput Storag		( )	. ,	
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Number of Inputs per MPPT       I         Ground/Earth Fault Detection       Yes         Peak Efficiency       98.70%         INPUTS AND OUTPUTS       4 analogue. 3 digital         Assignable Relay Outputs       4 analogue. 3 digital         Assignable Relay Output specs       60Vdc 5mA         SYSTEM       92%         Round Trip Efficiency (System)       92%         System Idle Current (System)       92%         MECHANICAL       2160mm x 950mm x         Dimensions (H x W x D)       2160mm x 950mm x         %50mm       850mm         Weight       1100kg         1100kg       1400kg         Mounting Options       Forklit/Crare         ENVIRONMENTAL       Verson         Operating Temperature Range       0 to 50°C         Ideal Operating Temperature Range       0 to 25°C         Operating Temperature Range       0 to 25°C         Full Output Power       0 to 25°C as possible)         Maximum Elevation       200/r         Environment       0utdout-         Ingress Rating       IP54         Wet Location Rating       Yes         Noise Level @ 1m       <60/dB				
Ground/Earth Fault DetectionGround/Earth Fault DetectionYesPeak Efficiency98.70%INPUTS AND OUTPUTSAssignable Relay Outputs4 analogue, 3 digitalAssignable Relay Output specs $60Vdc 5mA$ SYSTEMRound Trip Efficiency (System) $92\%$ System Idle Current (System) $92\%$ Dimensions (H x W x D) $2160mm x 950mm x 850mm$ & 850mm $2160mm x 950mm x 850mm$ Weight1100kg100kg1400kgMounting OptionsForklift/CrareENVIRONMENTALOperating Temperature Range $0 to 45°C$ Operating Temperature Range $0 to 45°C$ Coloperating Temperature Range $0 to 25°C$ Operating Temperature Range $0 to 25°C$ Operating Temperature Range $0 to 25°C$ Operating Temperature Range $0 to 25°C$ Coloperating Humidity (RH) $85\%$ non- $co-rdensing$ Storage Conditions $0 - 45°C$ (or as $close to 25°C$ cas possible)Maximum Elevation $2000rr$ Inpess RatingIP54Weit Location RatingYesNoise Level @ 1mColing Battery InverterFan ForcedColing Battery Inverter				
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Assignable Relay Outputs $4 analogue, 3 digitalAssignable Relay Output specs60V d \subset 5mASYSTEM92\%Round Trip Efficiency (System)92\%System Idle Current (System)92\%MECHANICAL2160mm \times 950mm \times 850mmDimensions (H x W x D)2160mm \times 950mm \times 850mmWeight1100kgItting OptionsFlowtheret = 100000000000000000000000000000000000$	-	98.70%		
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Round Trip Efficiency (System) $92\%$ System Idle Current (System) $TBA$ MECHANICAL $2160mm x 950mm x$ $850mm2160mm x 1625mmx 850mmDimensions (H x W x D)2160mm x 950mm x850mm2160mm x 1625mmx 850mmWeight1100kg1400kgMounting OptionsForklift/CraneLifting OptionsForklift/CraneENVIRONMENTALForklift/CraneOperating Temperature Range-10 to 5^{\circ}CIdeal Operating Temperature Range0 to 45^{\circ}CFull Output Power0 to 5^{\circ}COperating Humidity (RH)85\% non-crane densingStorage Conditions0 - 45^{\circ}C (or as close to 25°C as possible)Maximum Elevation200UrEnvironment0 tu 5^{\circ}CIngress Rating1P54Wet Location RatingV = sNoise Level @ 1m<60UBACooling Battery InverterFan ForcedCooling Battery InverterNatural Covection$	Assignable Relay Output specs	60Vdc 5mA		
System Idle Current (System)       TBA         MECHANICAL       2160mm x 950mm x         Dimensions (H x W x D)       2160mm x 950mm x         Neight       1100kg       1400kg         Mounting Options       Image: State in the stat				
MECHANICAL       2160mm x 950mm x 850mm       2160mm x 1625mm x 850mm         Dimensions (H x W x D)       2160mm x 950mm x 850mm       2160mm x 1625mm x 850mm         Weight       1100kg       1400kg         Mounting Options       Floor       Item version         Lifting Options       Forklift/Crane       Environment         Operating Temperature Range       -10 to 50°C       Item version         Operating Temperature Range       0 to 45°C       Item version         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       IP54         Noise Level @ 1m       <60dBA	Round Trip Efficiency (System)	92%		
Dimensions (H x W x D)2160mm x 950mm x 850mm2160mm x 1625mm x 850mmWeight1100kg1400kgMounting OptionsForklit/CraneLifting OptionsForklit/CraneENVIRONMENTALOperating Temperature Range-10 to 50°COperating Temperature Range0 to 45°CIdeal Operating Temperature Range0 to 50°CFull Output Power0 to 25°COperating Humidity (RH)85% non-condensingStorage Conditions0 - 45°C (or as close to 25°C as possible)Maximum Elevation2000mEnvironmentOutdottIngress RatingIIP54Wet Location Rating<<	System Idle Current (System)	ТВА		
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Mounting OptionsFloorLifting OptionsForklift/CraneENVIRONMENTALForklift/CraneOperating Temperature Range-10 to 50°CIdeal Operating Temperature Range0 to 45°CFull Output Power0 to 25°COperating Humidity (RH)85% non-condensingStorage Conditions0 - 45°C (or as close to 25°C as possible)Maximum Elevation2000mEnvironmentOutdoorIngress RatingIP54Wet Location RatingYesNoise Level @ 1m<60dBA	Dimensions (H x W x D)			
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Full Output Power0 to 25°COperating Humidity (RH)85% non-condensingStorage Conditions0 - 45°C (or as close to 25°C as possible)Maximum Elevation2000mEnvironmentOutdoorIngress RatingIP54Net Location RatingYesNoise Level @ 1m<60dBACooling Battery InverterFan ForcedCooling BatteryNatural Convection	Operating Temperature Range	-10 to 50°C		
Departing Humidity (RH)85% non-condensingStorage Conditions0 - 45°C (or as close to 25°C as possible)Maximum Elevation2000mEnvironmentOutdoorIngress RatingIP54Wet Location RatingYesNoise Level @ 1m<60dBA	deal Operating Temperature Range	0 to 45°C		
Storage Conditions0 - 45°C (or as close to 25°C as possible)Maximum Elevation2000mEnvironmentOutdoorIngress RatingIP54Noise Level @ 1m<60dBACooling Battery InverterFan ForcedCooling BatteryNatural Convection	Full Output Power	0 to 25°C		
Maximum Elevation2000mMaximum Elevation2000mEnvironmentOutdoorIngress RatingIP54Vet Location RatingYesNoise Level @ 1m<60dBACooling Battery InverterFan ForcedCooling BatteryNatural Convection	Dperating Humidity (RH)	85% non-condensing		
EnvironmentOutdoorngress RatingIP54Wet Location RatingYesNoise Level @ 1m<60dBA	Storage Conditions	0 - 45°C (or as close to 25°C as possible)		
ngress RatingIP54Net Location RatingYesNoise Level @ 1m<60dBACooling Battery InverterFan ForcedCooling BatteryNatural Convection	Maximum Elevation	200	00m	
Wet Location Rating     Yes       Noise Level @ 1m     <60dBA	Environment	Outdoor		
Noise Level @ 1m<60dBACooling Battery InverterFan ForcedCooling BatteryNatural Convection	Ingress Rating	IP54		
Cooling Battery Inverter     Fan Forced       Cooling Battery     Natural Convection	Wet Location Rating	Yes		
Cooling Battery Natural Convection	Noise Level @ 1m	<60dBA		
	Cooling Battery Inverter	Fan Forced		
Cooling BESS Cabinet 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.

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