






# BushChook

## WHOLE HOME BACKUP POWER SOLUTION

-  Single-phase (5kW & 10kw) and three-phase (12kW)
-  Suitable for on-grid and off-grid applications
-  EV charger and energy trading ready
-  Maximum capacity of 44.8kWh
-  Australian made and owned



<b>BushChook Model</b>	<b>Single phase</b>		<b>Three phase</b>
	<b>Bushchook 5 kW</b> 2BC1-DY5-XUL	<b>Bushchook 10 kW</b> 2BC1-DY10-XUL	<b>Bushchook 12 kW</b> 2BC3-DY12-XUL
Battery capacity (Troppo ULTRA 5.6 kWh)	2 to 8	2 to 8	3 to 8
Battery capacity of BushChook system (kWh nominal)	11.2 – 44.8 kWh	11.2 – 44.8 kWh	16.8 – 44.8 kWh
Inverter model	5K-SG04LP1-AU	10K-SG02LP1-AU	12K-SG04LP3-AU

### Battery data

Battery type	Troppo ULTRA 5165 LFP		
Battery capacity (nominal)	5.6 kWh per Troppo ULTRA battery		
Battery operating voltage range (V)	40-57.6 V		
Maximum charging current (A)	120 A	220 A	240 A
Maximum discharging current (A)	120 A	220 A	240 A

### PV string input data

Maximum allowable PV (W)	10,000 W	20,000 W	24,000 W
Maximum usable PV (W)	7,500 W	15,000 W	18,000 W
Maximum PV input voltage (V)	500 V	500 V	600 V
MPPT range (V)	150 to 425 V	150 to 425 V	200 V to 600 V
Start-up voltage (V)	125 V	125 V	160 V
PV input current (A)	13 A+13 A	26 A+26 A+26 A	26 A+13 A
Maximum. PV Isc (A)	19.5 A+19.5 A	44 A+44 A+44 A	39 A+19.5 A
No. of MPPT trackers	2	3	2
No. of strings per MPPT tracker	1+1	2+2+2	2+1

### AC output data

Rated AC output and UPS power (W)	5,000	9999	12,000
Maximum. AC output power (VA)	5,000	9999	12,000
Peak power (off-grid)	2 times of rated power, 10 sec		
Rated AC output current (A)	21.7 A	43.5 A	17.4 A
Maximum AC output current (A)	21.7 A	43.5 A	17.4 A
Maximum continuous AC passthrough (A)	35 A	50 A	40 A
Generator Total Harmonic Distortion (THDi)	< 3% (of nominal power)		
Power factor	0.8 leading to 0.8 lagging		
Output frequency and voltage	50 Hz; 230 V/400 V, 240 V/415 V		

### Page 2 of 3

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For technical support: <https://redearth.cloud/public/support-case>

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Grid connection type	Single phase L/N/E		Three phase 3L/N/E

### Protection

Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Insulation Impedance Detection, Arc Fault Circuit Interrupter (optional), DC Switch, Anti-islanding Protection (Active Frequency shift), Residual Current Detection
Over voltage category	DC Type II / AC Type III

### Certifications and standards

Grid regulation	AS/NZS 4777.2
EMC / Safety regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

### General data

Operating temperature range (°C)	-40~60°C, >45°C derating		
Cooling	Smart cooling with temperature-controlled fans		
Weight of BushChook system (excl batteries) (kg)	109	130	135
Size of BushChook system (mm)	1180 W x 1040 H x 580 D		
Protection degree of BushChook system	IP43		
RedEarth Warranty	10 years (AU & NZ and South Pacific region)		

\* The BushChook system is designed to only use the RedEarth Troppo ULTRA-5156 lithium-ion battery (LFP).

\*\* The Nominal Energy Capacity depends on the number of Troppo ULTRA-5156 batteries installed in the BushChook system. The model numbers reflect the total battery capacity installed in the system.