

Gecko2 Model	Single phase		Three phase	
	Gecko2 5kW 2GC1-DY5-XUL	Gecko2 10kW 2GC1-DY10-XUL	Gecko2 12kW 2GC3-DY12-XUL	Gecko2 15kW 2GC3-DY15-XUL ~ Coming soon
Battery capacity (Troppo Ultra 5.6kWh)	2 to 8	2 to 8	3 to 8	3 to 8
Battery capacity (kWh nominal)	11.2 – 44.8	11.2 – 44.8	16.8 – 44.8	16.8 – 44.8
Inverter model	5K-SG04LP1-AU	10K-SG02LP1-AU	12K-SG04LP3-AU	~Coming soon

Battery data

Battery type	Troppo Ultra 5156 LFP self-managed lithium			
Battery capacity (nominal)	5.6kWh per Troppo Ultra battery			
Battery operating voltage range (V)	48-57.6V			
Maximum charging current (A)	120A	220A	240A	280A
Maximum discharging current (A)	120A	220A	240A	280A

PV string input data

Maximum allowable PV (W)	10,000W	20,000W	24,000W	30,000W
Maximum usable PV (W)	7,500W	15,000W	18,000W	24,000W
Maximum PV input voltage (V)	500V	500V	600V	600V
MPPT range (V)	150 to 425V	150 to 425V	200V to 650V	160-650V
Start-up voltage (V)	125V	125V	160V	160V
PV input current (A)	13A+13A	26A+26A+26A	26A+13A	36A+36A
Maximum. PV Isc (A)	19.5A+19.5A	44A+44A+44A	39A+19.5A	54A+54A
No. of MPPT trackers	2	3	2	2
No. of strings per MPPT tracker	1+1	2+2+2	2+1	2+2

AC output data

Rated AC input/output active power (W)	5,000	9999	12,000	15,000
Maximum. AC input/output apparent power (VA)	5,000	9999	12,000	15,000
Peak power (off-grid)	2 times of rated power, 10 S			
Rated AC input/output current (A)	21.7A	43.5	17.4A	21.8
Maximum AC input/output current (A)	21.7A	43.5	17.4A	21.8
Maximum continuous AC passthrough (A)	35A	50A	45A	50A
Generator Total Harmonic Distortion (THDi)	<3% (of nominal power)			
Power factor	0.8 leading to 0.8 lagging			
Output frequency and voltage	50Hz; 230V/400V, 240/415V			

Protection	Single phase		Three phase	
	Gecko2 5kW 2GC1-DY5-XUL	Gecko2 10kW 2GC1-DY10-XUL	Gecko2 12kW 2GC3-DY12-XUL	Gecko2 15kW 2GC3-DY15-XUL ~ <i>Coming soon</i>
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 II			
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 Gecko2 system (excl. batteries) (kg)	100kg	120kg	125kg	140kg
Size of Gecko2 system (mm)	1060W x 1950H x 450D			
Protection degree of Gecko2 system	IP43			
RedEarth Warranty	10 years (AU & NZ and South Pacific region)			
Electrical connections	Grid connection, backup circuits connection and Smart Port connection (AC coupled inverter/smart load/generator). PV array			
Monitoring	Monitoring hardware included and activated via RedEarth's EMU app (subject to network availability and Optimum subscription).			
Energy trading	On-grid only			
EV charging	Yes			

* The Gecko2 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 Gecko2 system. The model numbers reflect the total battery capacity installed in the system.