

Model	T-REX -50KHP3G01	T-REX -40KHP3G01	T-REX -30KHP3G01	T-REX -29K9HP3G01	T-REX -25KHP3G01
Battery Input Data					
Battery Type	LFP (LiFePO4)				
Battery Voltage Range	160~800Vd.c.				
Max. Charging Current	50+50(A)				
Max. Discharging Current	50+50(A)				
Number of battery input	2				
PV String Input Data					
Max. DC Input Power	65 kW	52 kW	39 kW	38. 87 kW	32. 5 kW
Max. DC Input Voltage	1000Vd.c.				
Min. DC Input Voltage	150Vd.c.				
Start-up Voltage	250Vd.c.				
Rated DC Input Voltage	600Vd.c.				
MPPT Range	200~850Vd.c.				
Full Load DC Voltage Range	450~850Vd.c.	360~850Vd.c.	360~850Vd.c.	360~850Vd.c.	450~850Vd.c.
PV Input Current	36+36+36+36(A)		36+36+36(A)		36+36(A)
Max. PV Isc	55+55+55+55(A)		55+55+55(A)		55+55(A)
No.of MPP Trackers	4		3		2
No.of Strings per MPP Tracker	2		2		2
AC Output Data					
Rated AC Output Power	50 kW	40 kW	30 kW	29. 9 kW	25 kW
Max. AC Output Power	55 kW	44 kW	33 kW	29. 9 kW	27. 5 kW
AC Output Rated Current	72.5 A	58 A	43. 5 A	43. 4 A	36.3 A
Max. AC Current	79.7 A	63.8 A	47. 8A	43. 4 A	39.9 A
Rated AC Voltage	220/380,230/400 Vac (-20%~+15%)				
AC Wiring Mode	3W+N+PE/3W+PE				
Rated AC Frequency	50 /60 Hz (45~55Hz/55~65Hz)				
THDI	<3% (At Rated Power)				
Power Factor	0.8(leading) to 0.8(lagging)				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Efficiency	99.90%				

PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Battery Input Lightning Protection	Integrated
Battery Input Reverse Polarity Protection	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
Output Over Current Protection	Integrated
Output Shorted Protection	Integrated
Output Over Voltage Protection	Integrated
Anti-islanding Protection	Integrated
AC Output Lightning Protection	Integrated
Certification and Standards	
Grid Regulation	NRS 097-2-1,VDE4105,EN50549-1,AS 4777.2, GB/T 34120,GB/T 34133,GB/T 34129
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2
General Data	
Size (W* H* D)	940*595*340mm
Protection Degree	IP65
Operating Temperature Range	-25 to 60 °C (> 50 °C derating)
Humidity	0 ~ 95 % (No condensation)
Cooling	Smart cooling
Altitude	3000 m (> 2000 m derating)
Communication with BMS	RS485,CAN
Monitor module	WiFi/GPRS
Installation Style	Wall-mounted
Warranty[1]	10 years

[1]Conditions apply, refer to FelicityESS Warranty policy.