



T-REX Hybrid Inverter

T-REX-4.6/5K/6KLP1G01

Product Features



Multi-way MPPT design



Lithium battery activation function



UPS grade on/off grid switching



6 pcs in parallel maximum



Realize remote monitoring and scheduling



Ip65 protection grade

Specification

Model	T-REX-4K6LP1G01		T-REX-5KLP1G01	T-REX-6KLP1G01
Battery Input Data				
Battery Voltage Range	40V~60V			
Max. charging and discharging current	100A/100A		120A/120A	
Max. charging and discharging power	4600W	5000W		6000W
Battery type	Li-Ion /Lead-acid			
DC Input Data(PV side)				
Max.recommended PV power	6000W (3000W for single PV)	6500W (3500W for single PV)		7800W (3900W for single PV)
Max.PV voltage	550V			
Start voltage	130V			
PV voltage range	90V-550V			
MPPT voltage range	100V-500V			
MPPT Voltage Range for Full Load	200V-500V	220V-500V		260V-500V
Nominal voltage	360V			
Max.input current	15A/15A			
Max. shorted current	18A/18A			
Number of MPP trackers / strings per MPP tracker	2/1			
Grid Data				
Nominal Input Voltage	230Vac			
Input Voltage Range	184-264.5Vac*			
Nominal grid frequency	50/60Hz			
Max. input current	40A			
Max. Charge Current	100A		120A	
Max. AC output power	4600W	5000W		6000W
AC Output Rated Current	20A	21.7A		26A
Max. Output current	25A	25A		30A
Max. Continuous AC Passthrough	30A			
Power Factor	>0.99			
Displacement power factor	0.8leading...0.8lagging			
THDI	< 3%			
AC Output Data(Back Up)				
Rated output power	4600VA/4600W	5000VA/5000W		6000VA/6000W
Max. Output current	30A			
Rated AC output voltage	230Vac			
Rated AC output frequency	50/60Hz			
Efficiency				
Max. efficiency	97.6%			
Euro efficiency	97.0%			
MPPT efficiency	99.9%			
Protection				
Output over current protection	Integrated			
Output over power protection	Integrated			
Output shorted protection	Integrated			
Anti-islanding protection	Integrated			
GFCI Protection	Integrated			
Insulation Resistor Detection	Integrated			
General Data				
Operating temperature range	-25°C~60°C,>45°C Derating			
Protection degree	IP65			
Relative humidity	100%			
Cooling concept	Nature		Intelligent Air Cooling	
Altitude	2000m			
Communication	RS232/RS485			
BMS Communication	CAN/RS485			
Monitor module	WiFi/GPRS			
Display	LCD+LED			
Installation Style	Wall-mounted			
Warranty[1]	10 years			
Grid Regulation	VDE-AR-N 4105; G99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1;			
Safety Regulation	IEC 62109-1/2IEC 62040-1			
EMC	EN61000-6-1.EN61000-6-3			
Net Weight(KG)	32.4KG			
Gross Weight(KG)	39.1KG			
Product Dimension(MM)	530*493*228MM			
Package Dimension(MM)	632*570*315MM			

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

*According to local grid-connected standards