

# T-REX Hybrid Inverter

T-REX-4.6/5KLP1G01



## Product Features



Multi-way MPPT design



Lithium battery activation function



UPS grade on/off grid switching



6 pcs in parallel maximum

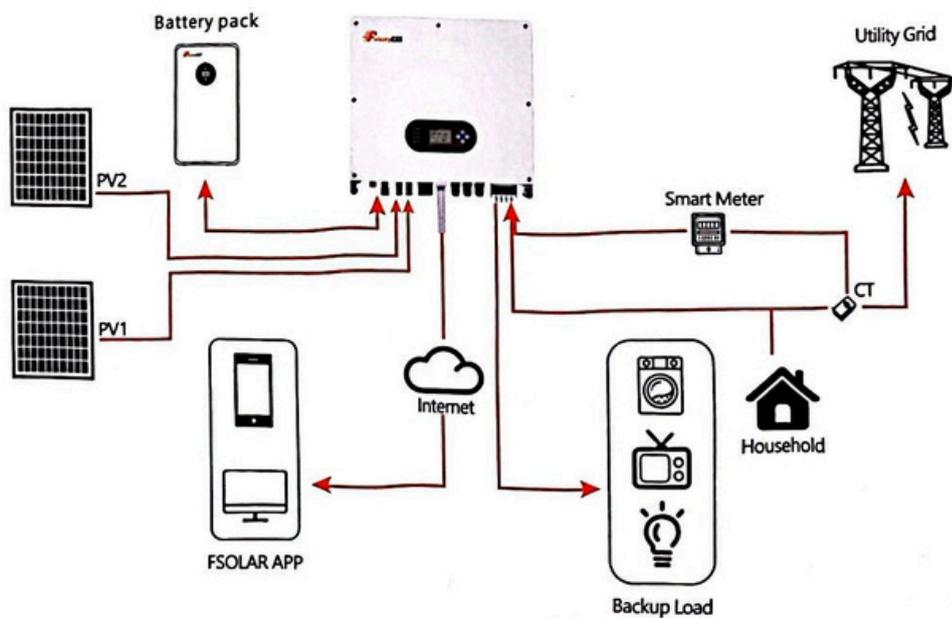


Realize remote monitoring and scheduling



Ip65 protection grade

## Connection diagram



# Specification

Model	T-REX-4K6LP1G01	T-REX-5KLP1G01
<b>Battery Input Data</b>		
Battery Voltage Range		40V~60V
Max. charging and discharging current		100A/100A
Max. charging and discharging power	4600W	5000W
Battery type		Li-Ion /Lead-acid
<b>DC Input Data(PV side)</b>		
Max.recommended PV power	6000W	6500W
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
Nominal voltage		360V
Max.input current		15A/15A
Max. shorted current		18A/18A
Number of MPP trackers / strings per MPP tracker		2/1
<b>Grid Data</b>		
Nominal Input Voltage		230Vac
Input Voltage Range		184-264.5Vac*
Nominal grid frequency		50/60Hz
Max. input current		40A
Max. Charge Current		100A
Max. AC output power	4600W	5000W
AC Output Rated Current	20A	21.7A
Max. Output current	25A	25A
Max. Continuous AC Passthrough		30A
Power Factor		>0.99
Displacement power factor		0.8leading...0.8lagging
THDI		< 3%
<b>AC Output Data(Back Up)</b>		
Rated output power	4600VA/4600W	5000VA/5000W
Max. Output current		30A
Rated AC output voltage		230Vac
Rated AC output frequency		50/60Hz
<b>Efficiency</b>		
Max. efficiency		97.6%
Euro efficiency		97.0%
MPPT efficiency		99.9%
<b>Protection</b>		
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
<b>General Data</b>		
Operating temperature range		-25°C~60°C,>45°C Derating
Protection degree		IP65
Relative humidity		100%
Cooling concept		Nature
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 -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