

5~6KVA

Hybrid Solar inverter

T-Rex Series Low-voltage | Single Phase

Features

- 📶 Enables real-time monitoring via WiFi.
- 🔋 48V low voltage battery, transformer isolation topology.
- ⚡ Max. charging/discharging current of 100A
- ⚙️ AC couple to retrofit existing solar system.
- 🔌 Support storing energy from diesel generator.
- ⚡ Seamless power supply switching within 20ms.
- 📈 Scalable expansion up to 6pcs in parallel.



**T-REX-5KLP1G01/
T-REX-6KLP1G01**



Model	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	5000W	6000W
Battery type	Li-Ion / Lead-acid	
DC Input Data(PV side)		
Max. Recommended PV Power	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	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	
Nominal Grid Frequency	50/60Hz	
Max. Input Current	40A	
Max. Charge Current	100A	120A
Max. AC Output Power	5000W	6000W
AC Output Rated Current	21.7A	26A
Max. Output Current	25A	30A
Max. Continuous AC Passthrough	40A	
Power Factor	>0.99	
Displacement Power Factor	0.8(Leading) to 0.8(Lagging)	
THDI	<3%	
AC Output Data(Back Up)		
Rated Output Power	5000VA/5000W	6000VA/6000W
Max. Output Current	30A	
Rated AC Output Voltage	230Vac	
Rated AC Output Frequency	50/60Hz	
Protection		
Output Over Current Protection	Integrated	
Output Over Power Protection	Integrated	
Output Short-Circuit 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	
Cooling Concept	Nature	Intelligent Air Cooling
Communication	RS232/RS485	
BMS Communication	CAN/RS485	
Monitor Module	WiFi/GPRS	
Display	LCD+LED	
Installation Style	Wall-mounted	
Warranty	10 Years	
Grid Regulation	CEI 0-21、G99、VDE 4105、EN 50549-1、NRS 097-2-1、C10/11、NTS & UNE217001 & UNE217002、PORTARIA N° 140 & 515	
Safety Regulation	IEC 62109-1/-2	
EMC	IEC/EN 61000-6-1/2/3/4、EN/IEC 61000-3-11/12	
Net Weight(KG)	32.4KG	
Gross Weight(KG)	39.1KG	
Product Dimension(MM)	530*493*228MM	
Package Dimension(MM)	632*570*315MM	

*Refer to Felicitysolar's Warranty Policy for applicable conditions.

