

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.