FelicityESS

Easy, Safe, Smart



T-REX Hybrid Inverter

T-REX-4.6/5K/6KLP1G01

Product Features

MPPT 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