

Scope of Supply for one solar Titan130

Name	Description of model and specifications	Unit	Quantity
	Sola Imported Components		
	Sola Titan 130 Gas Turbine Skid	Set	1
Base	Welded steel structure with elastic supports	Set	1
Titan 130 Dry Low – Emission Gas Turbine	ISO power output of 16,529 kW	Set	1
Reduction Gearbox	1500 RPM, 50 Hz	Set	1
Starting Motor	Direct – drive AC starting motor (two 112 kW units)	Set	1
Fuel System	Natural gas fuel regulation (within the turbine skid only)	Set	1
Lubricating Oil System	Including lubricating oil tank and heating system, main lubricating oil pump, pre – and post – lubricating oil pumps, jacking oil pump, 120V DC standby lubricating oil pump	Set	1
Gas Turbine Generator Control Cabinet	On – site gas turbine control system (including unit PLC system, combined generator control module, fire control system, etc. It has complete gas turbine control and protection functions, as well as generator excitation, synchronization, grid connection functions, and physical safety chain protection function in case of control system failure.)	Set	1
Operator Station	Remote operator station TT4000, usually installed in the central control room	Set	1
Test Documents	Factory standard tests carried out in accordance with Solar specifications, electronic CD – version quality control documents	Copy	1
Documentation	Including drawings and operation and maintenance manuals	Set	1
Random Spare Parts	See the random spare parts list for details	Set	1

	Lister Petter Domestic Supporting Parts		
Generator	10.5 kV, 50 Hz, air – cooled, 0.85 PF	Unit	1
Coupling	Dry type (including coupling protective cover)	Set	1
Gas Turbine Enclosure	Sound – insulated, waterproof, load – bearing enclosure	Set	1
Sound – Insulated Hood	Composed of removable sound – insulating wall panels, doors, lighting system, etc.	Piece	1
Carbon Dioxide Fire – Fighting System	Including three types of detectors inside the enclosure, carbon dioxide pipelines, nozzles, etc.	Set	1
Enclosure Ventilation System	Including intake and exhaust fans, silencers, fire dampers, etc.	Set	1
Maintenance Platform and Ladder	Platform and ladder on the upper part of the enclosure	Set	1
Combustion Air Intake System	Compact, with G4 + E10 two – stage standard filters and intake silencer	Set	1
Lubrication Cooling System	Cooler (air/water – cooled) on the upper part of the enclosure	Set	1
Oil Mist Separator	Installed on the upper part of the enclosure	Piece	1
Fuel Filter	Single – barrel condensate filter, supplied separately	Piece	1
Electrical Equipment Compartment (EEC)	Arranged at the cold end of the unit, with air – conditioning and smoke detection, for arranging electrical equipment	Piece	1
Auxiliary Power Supply and Control Cabinet	Power supply for unit equipment and MCC functions, installed in the EEC	Panel	1
DC Battery and Charger	120VDC 100Ah battery and charger 2.8kVA, 2.0kW, installed in the EEC	Set	1
Variable Frequency Starter Cabinet (VFD)	Supplies power to the gas turbine starting motor, installed in the EEC	Panel	1
Carbon Dioxide Cylinder Cabinet	5 * 42kg cylinders, with a single cylinder capacity of 70L	Set	1
Gas Turbine Cleaning Trolley	Mobile, with quick – connect fittings	Set	1
Special Tools	See the special tools list for details	Set	1

Random Spare Parts	Only for commissioning stage use	Set	1
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附件 3 索拉 T130 燃机基本参数

序号	名 称	单 位	数 值
1	额定功率 (ISO)	kW	16529
	额定电压	kV	10. 5
	额定频率	Hz	50
2	机组热耗 (ISO)	kJ/kWh	10159
3	机组发电效率 (ISO)	%	35. 43%
4	烟气流量 (ISO)	kg/h	202512
5	烟气温度 (ISO)	℃	489
6	设备重量	t	约 105
7	设备尺寸	m	最大 18. 81×5. 28×9. 08 底部 16. 87×2. 95×3. 16
8	NOx 排放	mg/Nm <sup>3</sup>	≤30 (@15% O <sub>2</sub> )
9	噪音	dB (A)	≤85
10	润滑油容量	Kg	4000