

# Hybrid Generator Sets



## TJ 10000 HD-PE

- ▶ Fuel savings up to 65%
- ▶ Super silent canopy 65dBA@7m
- ▶ Remote monitoring and control
- ▶ Environmentally with low carbon emission
- ▶ Quick ROI period up to 2 years
- ▶ Fast and quality after-sales service
- ▶ Longer maintenance intervals
- ▶ Compact design for easy transport

## TJ 10000 HD-PE

<b>MAXIMUM LOAD</b>	10.000 W	
Average Load	6.000 W	
Optimized Load Range	6.000 - 10.000 W	
Nominal Output Voltage	48 VDC	
AC Output Power (optional)	250 - 9.000 VA	
<b>ENGINE</b>		
Make	Perkins	
Model	1103A-33TG	
Output Power at 1800rpm	32,2 kW	
Cooling Type	Water	
Operating Speed	1300-2000 rpm	
Fuel	Diesel	
Standard Maintenance Interval	500 hours	
Increased Maintenance Interval (opt.)	1.000 hours	
<b>ALTERNATOR</b>		
Technology	Brushless Synchronous	
Model	TAL042 C	
Output Power at 1800rpm	30 kW	
<b>BATTERY</b>		
Technology	Li-Ion	
Type	LiFePO4	
Nominal Capacity	1.600 Ah	
Rated Voltage	48 V	
DoD (Depth of Discharge)	80%	
Cycle Life (25 °C@80%DoD)	5.000	
Maintenance Requirement	No	
Running Temperature (°C)	-15 to 45 / -10 to 55	
<b>SIZE</b>		
	LFP	
Weight	2800	
Dimensions (WxLxH)	1607x2800x2160	
<b>EXPECTED PERFORMANCE VALUES (LOAD)</b>	<b>6,0 kW</b>	<b>10,0 kW</b>
Battery Discharge Time (hours)	9	5,4
Battery Charge Time (hours)	4,4	4,8
Battery Cycle per Day	1,79	2,36
Expected Battery Life (years)	7	5,1
Genset Running Hours per Day (hours)	8,6	11,4
Engine Maintenance Period (days) (per 500 hours / per 1000 hours)	58/116	43/86
Fuel Consumption per Day (liters)	51,2	81,9
Fuel Transfer Period (days)	19	12
<b>HYBRID + SOLAR SYSTEM</b>		
Recommended Solar Power (kWp)	25,6	
Number of Solar Panels (pcs)	64	
Genset Running Hours per Day (hours)	5,4	8,2
Engine Maintenance Period (days) (per 500 hours / per 1000 hours)	92/184	60/120
Fuel Consumption per Day (liters)	31,1	53,9
Fuel Transfer Period (days)	32	18
Solar Energy Rate (%)	51,1	37
Expected Battery Life (years)	9,8	6,8

## Standard Features

<b>DC Power Distribution</b>		<b>Communication Interface</b>	RS232/ RS485
Critical loads (BLVD)	3x63A, 2x32A, 2x16A	<b>System Operating Temp. Range</b>	0 °C / +45 °C
Non-critical loads (LLVD)	1x63A, 2x32A, 2x16A	<b>Remote Monitoring/Control</b>	2G/3G/4G/Ethernet
<b>Internal Fuel Tank</b>	800 litres	<b>Location Tracking</b>	GPS

## Optional Features

<b>230V AC Output</b>	250VA- 6.000VA	<b>Solar Energy Kit -1 (panel, MPPT charger, fusebox)</b>	6,4 kWp optimized for TJ3000
<b>Residual Current Protection</b>	For 230V AC circuit		12,8 kWp optimized for TJ6000
<b>Auto-Transfer Switch</b>	Auto-Transfer Board		25,6 kWp optimized for TJ10000
<b>Free Contacts for External Signals</b>	8 Inputs / Outputs	<b>Solar Energy Kit -2 (panel, MPPT charger, fusebox)</b>	Can be optimized acc. to the project req.
<b>Increased Operating Temp. Range</b>	-20°C / +55°C		Can be optimized acc. to the project req.
<b>Load Priority Selection</b>	Critical / Non-critical	<b>IP Protection Class</b>	Can be optimized acc. to the project req.
<b>Increased Maintenance Interval</b>	1.000 hours	<b>Super Silent Cabinet</b>	Can be optimized acc. to the project req.
<b>External Fuel Tank</b>	up to 5000 litres	<b>Dust Filters</b>	Can be optimized acc. to the project location
<b>External Battery Capacity</b>	up to 2000Ah	<b>Improved Security</b>	Can be optimized acc. to the project location
<b>Multiple User Support</b>	Power measurement per user		

