

Hybrid Generator Sets



TJ 3000 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 3000 HD-PE

MAXIMUM LOAD	3.000 W		
Average Load	2.000 W		
Optimized Load Range	1.000 - 3.000 W		
Nominal Output Voltage	48 VDC		
AC Output Power (optional)	250 - 3.000 VA		
ENGINE			
Make	Perkins		
Model	403D-11		
Output Power at 1800rpm	10,3 kW		
Cooling Type	Water		
Operating Speed	1300-2000 rpm		
Fuel	Diesel		
Standard Maintenance Interval	500 hours		
Increased Maintenance Interval (opt.)	1.000 hours		
ALTERNATOR			
Technology	Brushless Synchronous		
Model	TAL040 D		
Output Power at 1800rpm	9 kW		
BATTERY			
Technology	Lead Acid / Li-Ion		
Type	Lead Carbon / LiFePO4		
Nominal Capacity	500 Ah		
Rated Voltage	48 V		
DoD (Depth of Discharge)	80%		
Cycle Life (25 °C@80%DoD)	3.200 / 5.000		
Maintenance Requirement	No		
Running Temperature (°C)	-15 to 45 / -10 to 55		
SIZE			
	LEAD CARBON	LFP	
Weight	2313	1775	
Dimensions (WxLxH)	1506x2550x2000		
EXPECTED PERFORMANCE VALUES (LOAD)	1,0 kW	2,0 kW	3,0 kW
Battery Discharge Time (hours)	16,8	8,4	5,6
Battery Charge Time (hours)	4		
Battery Cycle per Day	1,16	1,94	2,51
Expected Battery Life (years)	9,5	5,6	4,4
Genset Running Hours per Day (hours)	4,6	7,7	9,9
Engine Maintenance Period (days) (per 500 hours / per 1000 hours)	108/216	65/130	50/100
Fuel Consumption per Day (liters)	10,4	20,1	29,3
Fuel Transfer Period (days)	77	40	27
HYBRID + SOLAR SYSTEM			
Recommended Solar Power (kWp)	6,4		
Number of Solar Panels (pcs)	16		
Genset Running Hours per Day (hours)	1,4	5,2	6,7
Engine Maintenance Period (days) (per 500 hours / per 1000 hours)	357/714	96/192	74/148
Fuel Consumption per Day (liters)	2,7	11,7	20,7
Fuel Transfer Period (days)	296	68	38
Solar Energy Rate (%)	78,9	45,3	31,9
Expected Battery Life (years)	10	7,5	5,7

Standard Features

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

Optional Features

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

