CENTAURI ENERGY SERVER
TECHNICAL DATA SHEET
GF-80000-360Vdc-380Vac-3 | Version: October 2019

PERFORMANCE SPECIFICATIONS	**MODEL**	**80KW**
	Rated power	80 KW
	Rated current	182 A
	Output power factor	1
	Rated input voltage	380 Vac ± 20%
	Rated output voltage	380 Vac ± 1%
	Battery voltage	360 Vdc
	Operating mode	AC and PV complementation
	Operating temperature	0℃ ~ 40℃
	Max. relative humidity	90% (non-condensing)
	Max. altitude	1000 m at rated power (derating 1% for each additional 100 m); Max. 4000 m
	Noise level at 1 m	≤ 65 dB (varies with loads and temperature)
	IP rating	IP20
PV INPUT	Max. voltage (Voc)	750 Vdc
	Optimum operating voltage (Vmp)	450 ~ 550 Vdc
	Max. conversion efficiency	≥ 98%
	Floating charge voltage (25℃)	414 Vdc ± 1%
	Equalizing charge voltage (25℃)	428 Vdc ± 1%
	MPPT Max. current	360 A
	Max. PV power	6 * 25 kW
	Number of PV input	6 + 2 (reserve)
	MPPT modules	6 + 2 (reserve)
AC RECTIFIER	Input voltage range	380 V ± 20% three-phase
	Rated frequency	50 Hz / 60 Hz ± 5 Hz (settable)
	Power factor	0.8

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	Floating charge voltage (25℃)	410 V ± 1%
	Equalizing charge voltage (25℃)	415 V ± 1%
	Max. charging current	250 A
INVERTER	Inverter voltage	380 Vac three-phase + N+PE
	Phase voltage	220 / 230 / 240 Vac (settable)
	Output voltage precision	± 1%
	Transient voltage range	± 5%
	Transient recovery time	20 ms
	Rated frequency	50 Hz / 60 Hz ± 1 Hz (settable)
	Frequency tracking range	50 Hz / 60 Hz ± 3 Hz
	Peak factor	3: 1
	Waveform	Sinusoidal
	Waveform distortion	≤ 3% (linear load)
	Voltage unbalance	± 3% (100% unbalanced load)
	Overload	≥ 100% ~ 150% shut down in 1 min; ≥ 150% ~ 200% shut down in 10 sec; ≥ 210% ~ 1000% shut down in less than 10 sec; ≥ 1000% shut down in 2 s;
	Short circuit	Current-limiting, shut down immediately until the user start up
	Max. efficiency	≥ 93%
BYPASS	Rated voltage	380 Vac three-phase + N+PE
	Voltage range	± 20%
	Rated frequency	50 Hz / 60 Hz ± 5 Hz
	Max. current	228 A
TRANSFER TIME	Inverter– Bypass	0 ms
	Bypass – Inverter	0 ms
COMMUNICATIONS	Remote control	Energy server startup, shutdown, abnormal clearance, EPO, battery self-test

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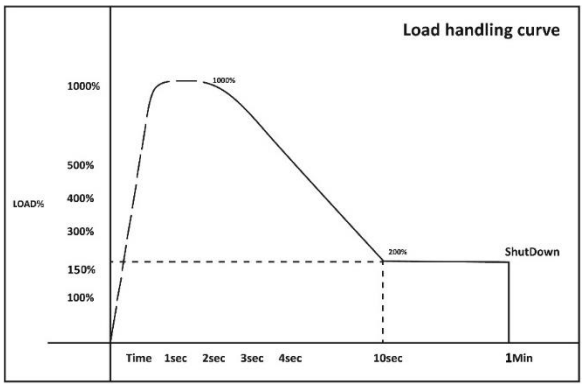
	Communication interface	RS232, RS485, SNMP (optional)
	Dry contacts output	Bypass input abnormal, rectifier input abnormal, system fault, system alarm, low battery, output overload, fan fault, generator ON / OFF
Load Handling Curve		
MECHANICAL SPECIFICATIONS	Dimensions (W × D × H) (mm)	960 × 800 × 1700 mm
	Packed dimensions (W ×D × H) (mm)	1040 × 890 × 1750 mm
	Weight (kg)	860 kg