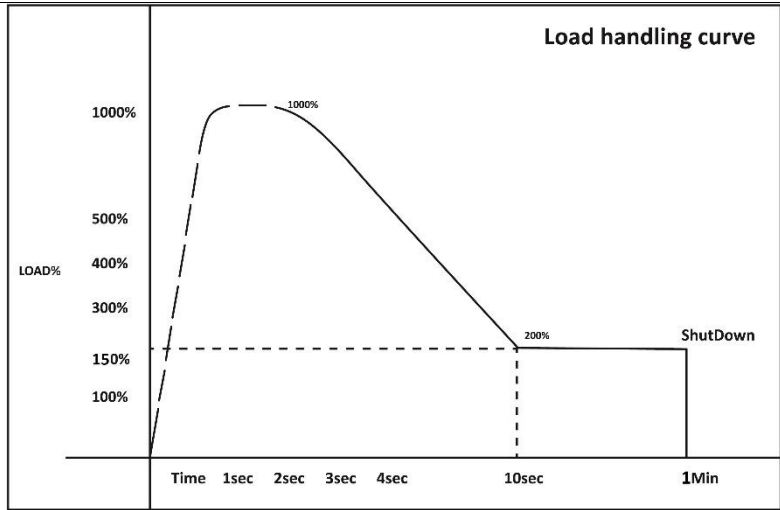


CENTAURI ENERGY SERVER
TECHNICAL DATA SHEET
20kW-40kW-80kW – Off-Grid – Version: NOVEMBER 2019

MODEL	20kW	40kW	80kW
Rated power	20 kW	40 kW	80 kW
Rated current	45 A	91 A	182 A
Output power factor	1		
Rated input voltage	380 Vac \pm 20%		
Rated output voltage	380 Vac \pm 1%		
Battery voltage	360 Vdc		
Operating mode	AC and PV complementation		
Operating temperature	0°C ~ 40°C		
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	\leq 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	\geq 98%		
Floating charge voltage (25°C)	414 Vdc \pm 1%		
Equalizing charge voltage (25°C)	428 Vdc \pm 1%		
MPPT Max. current	120 A	180 A	360 A
Max. PV power	2 * 25 kW	3 * 25 kW	6 * 25 kW
Number of PV input	2 + 1 (reserve)	3 + 1 (reserve)	6 + 2 (reserve)
MPPT modules	2 + 1 (reserve)	3 + 1 (reserve)	6 + 2 (reserve)
AC RECTIFIER			
Input voltage range	380 V \pm 20% three-phase		
Rated frequency	50 Hz / 60 Hz \pm 5 Hz (settable)		
Power factor	0.8		
Floating charge voltage (25°C)	410 V \pm 1%		
Equalizing charge voltage (25°C)	415 V \pm 1%		
Max. charging current	38 A	75 A	250 A
INVERTER			
Inverter voltage	380 Vac three-phase + N+PE		
Phase voltage	220 / 230 / 240 Vac (settable)		
Output voltage precision	\pm 1%		
Transient voltage range	\pm 5%		
Transient recovery time	20 ms		
Rated frequency	50 Hz / 60 Hz \pm 1 Hz (settable)		
Frequency tracking range	50 Hz / 60 Hz \pm 3 Hz		
Peak factor	3: 1		
Waveform	Sinusoidal		
Waveform distortion	\leq 3% (linear load)		
Voltage unbalance	\pm 3% (100% unbalanced load)		

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Overload	$\geq 100\% \sim 150\%$ shut down in 1 min; $\geq 150\% \sim 200\%$ shut down in 10 sec; $\geq 210\% \sim 1000\%$ shut down in less than 10 sec; $\geq 1000\%$ shut down in 2 s;		
Short circuit	Current-limiting, shut down immediately until the user start up		
Max. efficiency	$\geq 92\%$	$\geq 93\%$	
BYPASS			
Rated voltage	380 Vac three-phase + N+PE		
Voltage range	$\pm 20\%$		
Rated frequency	50 Hz / 60 Hz ± 5 Hz		
Max. current	57 A	114 A	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		
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	 <p>Load handling curve</p> <p>The graph plots Load% on the y-axis (100% to 1000%) against Time on the x-axis (1sec to 1Min). The curve shows a rapid rise to 1000% at 1 second, a plateau until 2 seconds, a gradual decline to 200% at 10 seconds, and a final drop to ShutDown at 1 minute.</p>		
OTHERS			
Dimensions (W × D × H) (mm)	600 × 700 × 1750		960 × 800 × 1700
Packed dimensions (W × D × H) (mm)	690 × 790 × 1850		1040 × 890 × 1750
Weight (kg)	380	515	860