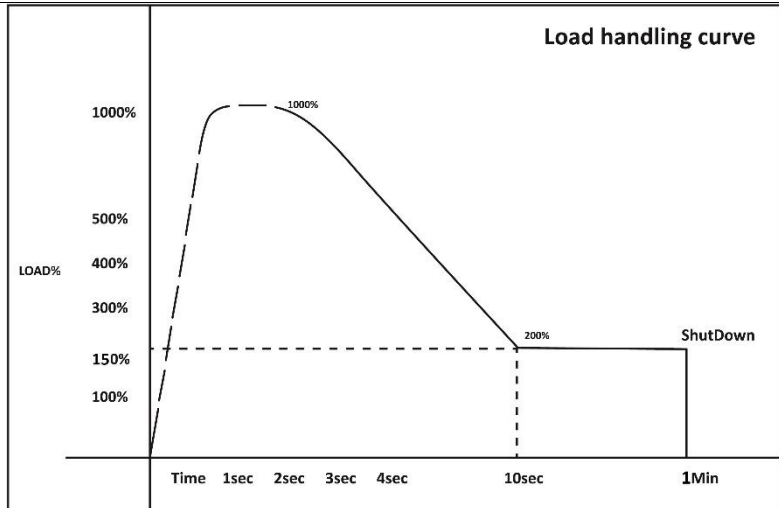


**CENTAURI ENERGY SERVER
TECHNICAL DATA SHEET
20kW-40kW-80kW – Off-Grid – Version: NOVEMBER 2019**

| 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 starts at 100% at 0 seconds, rises to 1000% at 1 second, remains at 1000% until 2 seconds, then gradually decreases to 200% at 10 seconds, and finally drops 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 |