

### CENTAURI ENERGY SERVER

#### TECHNICAL DATA SHEET

Model: 30-20180220

Version 2.0

Rated capacity(KVA)		10	20	30	40	50	60
Rated power (kW)		9	18	27	36	45	54
Rated current (A)		15	30	45	60	76	91
Output power factor		0.9					
Rated input voltage		380V ±20%					
Rated output voltage		380V ±1%					
Battery pack voltage		360Vdc					
The number of ESDs 12V/2V		30/180					
Working mode		The PV and AC are complementary to PV and AC					
PV Input	Maximum voltage range (Voc)	0 V - 750Vdc					
	Best working voltage (Vmp)	450 - 550Vdc					
	Maximum conversion efficiency	≥98%					
	Float charging voltage	414 V± 1%					
	Equal charging pressure	428V± 1%					
	Maximum charging current	40	60	120A		180A	
	Maximum working current	40	60	120A		180A	
	Maximum power of polar plate (KW)	16	24	2*24		3*24	
	PV input channels	1+1 (Reserved)	2+1 (Reserved)			3+1 (Reserved)	
	MPPT module	1+1 (Reserved)	2+1 (Reserved)			3+1 (Reserved)	
AC rectifier	Range of input voltage	Three-phase 380V ±20%					
	Rated frequency	50 Hz / 60Hz (Background Setting)					
	Frequency range	50 Hz / 60Hz ± 5Hz					
	Soft start	0-100% 10s					
	Power factor	PF = 0.8					
	Float charging voltage	410V±1%					

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	Maximum voltage	415V±1%				
	Maximum charging current [A] within the permitted range of battery capacity	25	38	50	62	75
Server	Rated current (A)	30	45	60	76	91
	Server voltage	Three-phase-four-wire+G 380Vac				
	Phase voltage setting	220-230-240Vac (Set by background)				
	Output voltage accuracy	±1%				
	Transient voltage range	±5%				
	Transient recovery time	20ms				
	Rated frequency	50 Hz / 60Hz±1% (Set by background)				
	Frequency tracking range	50H/60Hz±3 Hz				
	Peak factor	3 : 1				
	Waveform	Sine wave				
	Waveform distortion factor	≤3% (Linear load)				
	Voltage imbalance	±3% (100% Unbalanced load)				
	Overload	≥105%-110%: After 1 hour, switches to bypass. Automatically returns to Server when load is restored to normal. ≥110%-125%: After 10mins, switches to bypass. Automatically returns to Server when load is restored to normal. ≥125%-150%: After 1 min, switches to bypass. Automatically returns to Server when load is restored to normal. ≥150%: The system will shut down after 10 seconds and the user should confirm after load reboot. ≥200%: The system will shut down after 2 seconds and the user should confirm after load reboot.				
Short circuit	The system starts up limited current operation & immediately shuts down, while the user should confirm the boot					
Maximum efficiency %	≥91%	≥92%	≥92%	≥93%	≥93%	
Bypass	Rated voltage (V)	Three-phase-four-wire +G 380Vac				
	Voltage range	±20%				
	Rated frequency (Hz)	50/60Hz±5Hz				

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	Maximum current		38	57	76	95	114
Battery Management	Terminate Discharging voltage voltage	315VDC					
	Charging current Settings	Factory settings of 0.15C10: The user can set it for 0.07-0.3 C10.					
	Intelligent battery management	Automatic conversion between even charging and floating charging; Automatic temperature compensation of the battery pack (If the system is not connected with the detection line for the battery temperature, the temperature compensation is based on the ambient temperature)					
	Depth of discharge setting for off-peak discharging	330Vdc-378Vdc (The user can set it)					
Conversion time	Server / bypass conversion time	0ms					
	Bypass/Server conversion time	0ms					
Communication interface	Remote control input	Battery self-check, Server ON/OFF, fault clear, emergency stop					
	Computer monitoring port	RS232, RS485 and SNMP(Optional)					
	Dry contact output 12Vdc/250Vac 1A max	Bypass input fault, rectifier input fault, system fault, system alarm, battery low voltage, output overload, fan fault and generator ON/OFF.					
Environment	Operating temperature	0~40°C					
	Maximum relative humidity	90% (Non-condensing)					
	Maximum altitude	Rated power per 100m (1% reduced by rising 100m) Maximum 4000m					
Others	Cooling	Forced ventilation (fan speed varies with load)					
	Noise (The value changes with the different load and temperature at the place 1 meter away from the equipment) dB	60					
	Mean time between failures (MTBF)	200,000 hours					
	Protection grade	IP20					

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(EN60529)						
Incoming line way	Lower wiring pattern					
Standards	IEC62040-1-1、 EN62109-1:2010, EN62109-2:2011,					
Dimensions (W*D*H)	600mm*700 mm *1750 mm					
Packing (W*D*H)	690mm*790 mm *1850 mm					
Weight	250	280	300	320	345	360

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