KILOWATT LABS

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 solar 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	12	25	38	50	62	75
Server	Rated current (A)	15	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%: After10mins, 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					
	Max. efficiency %	≥90%	≥91%	≥92%	≥92%	≥93%	≥93%
Bypass	Rated voltage (V)	Three-phase-four-wire +G 380Vac					
	Voltage range	±20%					
	Rated frequency (Hz)	50/60Hz±5Hz					
	Maximum current(A)	19	38	57	76	95	114
Battery Management	Terminate Discharging voltage	315VDC					

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	Charging current Settings	Factory settings:0.15C10: User can set 0.07-0.3C10					
	Intelligent battery management	Automatic conversion between even charging and floating charging; Automatic temperature compensation of battery pack (If system not connectedwith detection line for battery temperature, then temperature compensation based on ambient temperature)					
	DOD 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(Option)					
	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℃					
	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 (EN60529)	IP20					
	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

This technical data sheet may change without notice and at the sole discretion of Kilowatt Labs, Inc.