

Innovation
for A Better Life

COSLINK **ESS**

**CHANGE
YOUR ENERGY
PROVIDE
ENERGY
INDEPENDENCE**

EnerSmart
TC48V24H Integrated Outdoor
Power Supply System

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Features and Advantages



Highly integrated

- All-in-one and modular design
- Multiple input and output models (power-grid, diesel generator, solar energy)
- Reserved space for communication devices



Smarter

- EMS real-time monitoring
- Variety of energy storage working modes (peak shifting, peak shaving, etc.)
- Support of multiple systems' parallel connection



Reliable

- Multi-module redundancy (N+1)
- Multiple cooling methods: air conditioning, heat exchanger, and forced air cooling
- Real-time warnings and protections

The Leader of ESS Active Control Technology

Future Green Energy: More Reliable, More Intelligent, More Economic



UN38.3

Model		TC48V24H
AC input	Rated input mode [V]	380
	Input capacity [A]	63A/4P*1 (AC MCB)
	Input frequency [Hz]	45~66 (rated: 50/60)
	AC SPD [kA]	40 kA/20 kA, 8/20 μs
AC output	AC leakage switch [A]	10A*1/RCCB 30 mA
	AC outlet [A]	10A*1
Standby power generator input	Input mode [Vac]	Rated: 380
	Input capacity [A]	63A/4P*1 (AC MCB)
	2-way input manual switch	Yes
PV input (if requested)	Rated input mode [Vdc]	102
	Input voltage range [Vdc]	70~150
	Input capacity [A]	63A/2P*4 (PV MCB to be installed in the cabinet)
	PV SPD [kA]	40 kA / 20 kA, 8/20 μs (PV SPD installed in the cabinet)
DC distribution	Output voltage [Vdc]	-42~-58 (rated: -53.5)
	Maximum capacity [kW]	24
	Battery breakers	100A/1P*N (N way battery breakers installed in the cabinet)
	LLVD branches	3*32A/1P, 3*63A/1P
	BLVD branches	1*10A/1P, 7*32A/1P
	DC SPD [kA]	40 kA/20 kA, 8/20 μs
Operation	Operating temperature [°C]	-40 ~ +55
	Storage temperature [°C]	-40 ~ +75
	Operating humidity	5%~95% RH (non-condensing)
	Altitude [m]	0~4000 (When altitude is 3000~4000m, the max. operating temperature decreases 1°C by 200m.)
PV modules	Peak efficiency	≥ 97%
	Power [W]	3000
	MPPT accuracy	≥ 0.99
	Voltage regulation accuracy	±1%
	Dimensions [W x D x H, mm]	106.5 * 286 * 41.5 (1U)
Rectifier	Peak efficiency	≥ 96%
	Power [W]	3000/4000 (176-300 Vac)
	Power factor	≥ 0.99
	THD	≤ 5%
	Dimensions [W x D x H, mm]	106.5 * 286 * 41.5 (1U)
Controller	Signal input	DI*6
	Alarm output	DO*6
	Communication port	RS485*1, LAN*1
	Display mode	LCD screen
Battery	Capacity [Ah]	100/150
	SOC precision	≤ 5%
	Rated output voltage [V]	52.8
	Maximum charging current [A]	90
	Maximum discharging current [A]	100
Others	Reserved space	12U
	Cooling	Heat exchange or forced air cooling
	Protection grade	IP55
	Cabinet dimensions [W * D * H, mm]	750 * 800 * 2200

Note: The above information may subject to update without prior notice.

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