

Energy Storage System

System offers you alternative energy solution with energy cost saving and stability of electricity use even in..

» ESS DC 48V / AC 110V or 220V

| Item names | Classifications | ESS-2K48V2KS-IB | | ESS-3K48V2KS-IB | |
|---------------------------|------------------------------|--|---------------|-----------------|--------------|
| Control | Input output type | Converts instantaneously commercial electric power/inverter output by non-contact switching (Within 4ms) | | | |
| | Output | Inverter sine wave output | | | |
| | Monitoring and control | Monitoring and controlling battery capacity, System supplementary operation mode detection function control (Automatic commercial electric power supplementary operation function at the load of above than 80% of rated capacity of inverter and if it becomes below 80% then it monitors and controls independent operation of inverter), Automatic power interruption monitoring function (UPS function), Normal discharge capacity(less 50% DOD) control, (Max 80% DOD in the grid power off period) | | | |
| Input type | | Single phase 2 wires 110V 50/60Hz (Input Hz auto detection) | | | |
| Output | Voltage/ Frequency | AC110 +/-5%, 50/60+/-0.2Hz(Auto change frequency after detection of commercial input power) | | | |
| Inverter | Instantaneous maximum output | 2kVA | | 3kVA | |
| | Continuous constant output | 1.6kW | | 2.4kW | |
| | Characteristics | Using 600V IGET, Commercial power voltage waveform emulation control, All high frequency containing rate is within 5% in independent operation. Insulation by main transformer (Commercial power and inverter). | | | |
| Grid charger | Charge capacity | 1.6kW | | 2.4kW | |
| | Rectification method | Use of SCR and electrolytic condenser | | | |
| | Charging method | Mixed charging method of constant current and constant voltage. | | | |
| | Charging control | PSOC(5 steps) charge control Adopted temperature compensation charge control program. | | | |
| Sunlight Power generation | Module voltage | DC60V ~ 99V | | | |
| | Connection capacity | 2.0kW | | | |
| | Charge control | PWM control | | | |
| | PV module | Poly-crystal silicon 72 cell series connection x 4 panels. (Rated voltage: 68V to 72V, OCV: less than 96V) | | | |
| Battery | Lead Acid Tubular MF | TMF 12V 100Ah | TMF 12V 120AH | TMF12V 150Ah | TMF12V 200Ah |
| | Sealed Lead Acid Batt. | VT12V 100Ah | VT12V 120AH | VT12V 150Ah | VT12V 200Ah |
| | Available electric power | 4.8Kwh | 5.76Kwh | 7.2Kwh | 9.6Kwh |
| | Nominal voltage | DC48V (Lead battery 12V x 4ea) | | | |
| Cooling | type | Natural cooling | | | |
| | Internal temperature rise | 20℃ | | | |
| Environment | Ambient temperature(℃) | -10℃ ~40℃ | | | |
| | Noise | MAX50dB below (1M Distance) | | | |
| | Dustproof/ Waterproof | IP 32 class | | | |
| | Humidity | 95% below(The place where water droplets are not developed) | | | |
| | Installation environment | Under the roof of a house(The place where sunrays does not reach) | | | |
| Dimension (mm) | | W305 x D385(With terminal block 410) x H460mm | | | |
| Weight | | 30kg | | 35kg | |

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» EPS ENERGY POWER SYSTEM

| MODEL : EPS 3K216V | | |
|--------------------------------|--|--------------------|
| DC input | Rated input voltageCVDC3 | 216VDC |
| | Operating voltage rangeCVDC3 | 189VDC~261VDC |
| | Current input no loadCA3 | 0.6 |
| | Rated input currentCA3 | 23 |
| Power grid | Rated voltageCVAC3 | 1 phase 2W/2W 100V |
| | Rated PowerCW3 | 3000 |
| | Rated currentCA3 | 30 |
| Inverter Output | Rated PowerCW3 | 3000 |
| | Rated currentCA3 | 30 |
| | Rated voltage CVAC3 | 100 |
| | Output frequency CHz3 | 50Hz |
| | Power factor | 97% |
| | Over load capacity | >85% |
| | Static Power(W) | <150 |
| boundary dimension (L x D x H) | | 305X473X755mm |
| RE. weight | The approx. weight is for reference, not used for trade. | 70Kg |
| Noise | | ≤40dB |
| Use altitude | | ≤4000m |
| Using temperature Range | | -10≤~+50≤ |
| Solar power charger | Option | |

The EPS output capacity possible to be decided depends on client request.

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UKB Co.,Ltd.
Unikor Battery co., Ltd.

