



# Specifications

| MODEL                                 |                           | KRONOS-UL10D                                                                                                                                  | KRONOS-UL15D                             | KRONOS-UL20D     | KRONOS-UL30D                                                   | KRONOS-UL40D     |
|---------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------|----------------------------------------------------------------|------------------|
| <b>Capacity</b>                       |                           | 10kVA/10kW                                                                                                                                    | 15kVA/15kW                               | 20kVA/20kW       | 30kVA/30kW                                                     | 40kVA/40kW       |
| <b>Input</b>                          | Nominal Voltage           | 120/208 -127/220 VAC P-P 3Ph+N+G                                                                                                              |                                          |                  |                                                                |                  |
|                                       | Voltage Range             | ±25% @100% load; -40~-20% @50% load                                                                                                           |                                          |                  |                                                                |                  |
|                                       | Frequency Range           | 40~70 Hz                                                                                                                                      |                                          |                  |                                                                |                  |
|                                       | Power Factor              | ≥ 0.99 @ 100% load                                                                                                                            |                                          |                  |                                                                |                  |
|                                       | THDi                      | <3% @100% load                                                                                                                                |                                          |                  |                                                                |                  |
| <b>Output</b>                         | Nominal Voltage           | 120/208 -127/220 VAC P-P 3Ph+N+G                                                                                                              |                                          |                  |                                                                |                  |
|                                       | Voltage Regulation        | ± 1% (static load)                                                                                                                            |                                          |                  |                                                                |                  |
|                                       | Frequency                 | 50/60 Hz                                                                                                                                      |                                          |                  |                                                                |                  |
|                                       | Frequency Range           | ±0.01%(free-running)                                                                                                                          |                                          |                  |                                                                |                  |
|                                       | Power Factor              | 1.0                                                                                                                                           |                                          |                  |                                                                |                  |
|                                       | Crest Factor              | 3:1                                                                                                                                           |                                          |                  |                                                                |                  |
|                                       | Harmonic Distortion       | ≤1% THD (linear load) / ≤3% THD (non-linear load)                                                                                             |                                          |                  |                                                                |                  |
|                                       | Overload                  | <110% Continuous; >110% 60 min.; 125% 10 min.; 150% 1 min.<br>(<105% continuous overload without alarms; >= 105%<110% continuous with alarms) |                                          |                  |                                                                |                  |
|                                       | Parallel Function         | Up to 6 units in parallel (N+1 Function)                                                                                                      |                                          |                  |                                                                |                  |
| <b>Bypass</b>                         | Type and Voltage          | Automatic, 208/220 VAC; 3F + N + G                                                                                                            |                                          |                  |                                                                |                  |
|                                       | Voltage Range             | Preventive Range ± 10% (adjustable ± 5% ~ ± 15%)<br>Critical Range ± 25% (adjustable ± 16% ~ ± 30%)                                           |                                          |                  |                                                                |                  |
|                                       | Frequency                 | 50/60Hz                                                                                                                                       |                                          |                  |                                                                |                  |
|                                       | Frequency Range           | ±1Hz / ±3Hz (Selectable)                                                                                                                      |                                          |                  |                                                                |                  |
| <b>Batteries</b>                      | Battery Quantity          | 12 VDC, 16/18/20 pcs. configurable                                                                                                            |                                          |                  |                                                                |                  |
|                                       | Charger @ 100% load       | 3.5 Amp.                                                                                                                                      | 5 Amp.                                   | 7 Amp.           | 10 Amp.                                                        | 13 Amp.          |
|                                       | Maximum Charger Current   | 10 Amp.                                                                                                                                       | 15 Amp.                                  | 21 Amp.          | 30 Amp.                                                        | 39 Amp.          |
|                                       | Common Battery (parallel) | Supports Common Battery for Parallel Applications                                                                                             |                                          |                  |                                                                |                  |
|                                       | Internal Batteries        | Ready to use 20*2 strings of 12V7/9AH                                                                                                         | Ready to use 20 *3 strings 12V 7/9/10 AH |                  | Requires External Battery Cabinets; Multiple options available |                  |
| <b>Maximum Efficiency</b>             | Normal Mode               | 93.5%                                                                                                                                         | 94%                                      | 94.5%            |                                                                |                  |
|                                       | ECO Mode                  | 98%                                                                                                                                           |                                          |                  |                                                                |                  |
|                                       | Battery Mode              | 92.5%                                                                                                                                         | 93.5%                                    |                  |                                                                |                  |
| <b>HMI &amp; Communication</b>        | Interface & MMI           | Color LCD Touchscreen                                                                                                                         |                                          |                  |                                                                |                  |
|                                       | Communication Ports       | RS232, USB, EPO, Dry Contact                                                                                                                  |                                          |                  |                                                                |                  |
|                                       | Optional Communications   | 2 Communication Slots. SNMP network cards, RS-485 Modbus card, Dry Contacts Card                                                              |                                          |                  |                                                                |                  |
| <b>Mechanical Features</b>            | Dimensions W x D x H mm   | 260 x 850 x 890                                                                                                                               | 410 x 850 x 977                          |                  | 410 x 850 x 1200                                               |                  |
|                                       | Weight w/o Batteries      | 76 Kg/186 Lb.                                                                                                                                 | 105 Kg / 231 Lb.                         | 115 Kg / 253 Lb. | 155 Kg / 341 Lb.                                               | 160 Kg / 352 Lb. |
|                                       | Protection Level          | IP20                                                                                                                                          |                                          |                  |                                                                |                  |
|                                       | Color                     | RAL9005                                                                                                                                       |                                          |                  |                                                                |                  |
| <b>Environmental</b>                  | Operation Temperature     | 0~40°C; 20 ~ 25 °C (recommended for optimal battery performance; battery lifespan reduces by half for each increase of 10°C above 25 °C)      |                                          |                  |                                                                |                  |
|                                       | Operation Humidity        | 0~95% (no condensation)                                                                                                                       |                                          |                  |                                                                |                  |
|                                       | Elevation                 | <3000 m.                                                                                                                                      |                                          |                  |                                                                |                  |
|                                       | Noise                     | <55 dBA                                                                                                                                       |                                          |                  | <60 dBA                                                        |                  |
| <b>Storage</b>                        | Temperature               | -20 ~ 70 °C (UPS w/o batteries); -15 ~ 40 °C (UPS with batteries)                                                                             |                                          |                  |                                                                |                  |
|                                       | Humidity                  | ≤95%                                                                                                                                          |                                          |                  |                                                                |                  |
| <b>Certifications &amp; Standards</b> | Safety                    | UL 1778 (CSA C22.2 NO.107.3) 5th, 2017 Edition                                                                                                |                                          |                  |                                                                |                  |
|                                       | EMC                       | FCC15B, class A                                                                                                                               |                                          |                  |                                                                |                  |
|                                       | Markings                  | CE                                                                                                                                            |                                          |                  |                                                                |                  |

\*Specifications are subject to change without prior notice.

