

# Flex LV-US Series



| MODEL                    |  | Flex LV-US 12k                                   |
|--------------------------|--|--|
|                          | Phase  | 120V / 240V Split phase, 120V / 208V Split phase |
|                          | Maximum PV Input Power                         | 12000W   |
|                          | Rated Output Power                             | 10000VA/10000W                                   |
|                          | Maximum Charging Power                         | 10000W   |
| GRID-TIE OPERATION       |  |  |
| PV INPUT (DC)            | Maximum DC Voltage                             | 600 VDC  |
|                          | Start-up Voltage / Initial Feeding Voltage     | 125 VDC / 160 VDC                                |
|                          | MPP Voltage Range                              | 120 VDC ~ 550 VDC                                |
|                          | Number of MPP Trackers / Maximum Input Current | 2 / 18A  |
| GRID OUTPUT (AC)         | Nominal Output Voltage                         | 120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)      |
|                          | Output Voltage Range                           | 105.5 VAC ~ 132 VAC (per phase)                  |
|                          | Nominal Output Current                         | 41.5 A per phase                                 |
|                          | Power Factor                                   | 0.9 lag to 0.9 lead                              |
| EFFICIENCY               | Maximum Conversion Efficiency (DC/AC)          | 96%  |
| OFF-GRID OPERATION       |  |  |
| AC INPUT                 | AC Start-up Voltage / Auto Restart Voltage     | 85 VAC (per phase) / 90 VAC (per phase)          |
|                          | Acceptable Input Voltage Range                 | 85 - 140 VAC (per phase)                         |
|                          | Frequency Range                                | 50 Hz / 60 Hz (Auto sensing)                     |
|                          | Maximum AC Input Current                       | 40A per phase                                    |
| PV INPUT (DC)            | Maximum DC Voltage                             | 600 VDC  |
|                          | MPP Voltage Range                              | 120 VDC ~ 550 VDC                                |
|                          | Number of MPP Trackers / Maximum Input Current | 2 / 18A  |
| BATTERY MODE OUTPUT (AC) | Nominal Output Voltage                         | 120 VAC (P-N), 208 VAC (P-P), 240 VAC (PP)       |
|                          | Output Waveform                                | Pure sine wave                                   |
|                          | Efficiency (DC to AC)                          | 91%  |
| HYBRID OPERATION         |  |  |
| PV INPUT (DC)            | Maximum DC Voltage                             | 600 VDC  |
|                          | Start-up Voltage / Initial Feeding Voltage     | 125 VDC / 160 VDC                                |
|                          | MPP Voltage Range                              | 120 VDC ~ 550 VDC                                |
|                          | Number of MPP Trackers / Maximum Input Current | 2 / 18A  |
| GRID OUTPUT (AC)         | Nominal Output Voltage                         | 120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)      |
|                          | Output Voltage Range                           | 105.5 VAC - 132 VAC (per phase)                  |
|                          | Nominal Output Current                         | 41.5 A per phase                                 |
| AC INPUT                 | AC Start-up Voltage / Auto Restart Voltage     | 85 VAC (per phase) / 90 VAC (per phase)          |
|                          | Acceptable Input Voltage Range                 | 85 - 140 VAC (per phase)                         |
|                          | Maximum AC Input Current                       | 40 A per phase                                   |
| BATTERY MODE OUTPUT (AC) | Nominal Output Voltage                         | 120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)      |
|                          | Efficiency (DC to AC)                          | 91%  |
| BATTERY & CHARGER        | Nominal DC Voltage                             | 40-62 VDC  |
|                          | Maximum Solar Charging Current                 | 200A   |
|                          | Maximum AC Charging Current                    | 200A   |
|                          | Maximum Charging Current                       | 200A   |
| GENERAL                  |  |  |
| PHYSICAL                 | Dimensions (W*D*H)                             | 515*215.5*715mm / 20.2*8.5*28in                  |
|                          | Weight   | 45kg / 99lb                                      |
| INTERACE                 | Parallel Function                              | Yes, 6 units                                     |
|                          | Communication Port                             | RS232, RS485, WI-FI, USB                         |
| ENVIRONMENT              | Protection Degree                              | IP65   |
|                          | Operating Temperature                          | -25°C to 60°C (>45°C derating)                   |
|                          | Certifications                                 | UL1741SA/IEEE1547.1/CEC                          |