125kWh-261kWh BESS-DC Coupled



Manufactured by Gotion BESS - India Market developement by L&T EPS

125 kW	156 kW	97.5%	< 10 ms
RATED OUTPUT	RECOMMENDED MAX. PV	MAX. EFFICIENCY	BACK-UP SWITCH TIME

PV INPUT & BATTERY

Recommended max. PV array size	156 kW
Max. usable PV input power	156 kW
Max. input voltage	1000 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	150 - 950 V
Max. input current	10 × 42 A
Max. short circuit current	10 × 60 A
MPPT number / Max. input strings number	10 / 20
Battery type	Li-ion
Battery voltage range	300 - 950 V
Max. charge / discharge current	100 A × 2 / 100 A × 2
Number of battery ports	2
Max. charge / discharge current of each port	100 A
Communication	CAN / RS485

AC PERFORMANCE

Rated output power	125 kW	Max. input current	250 A
Max. apparent output power	125K: 1.4× rated, 10 s; 1.6× rated, 200 ms	Max. input power	125 kW
Back-up switch time	< 10 ms	Rated input current	189.9 A / 180.4 A
Rated output voltage	3/N/PE, 220/380 V; 230/400 V	Rated input voltage	3/N/PE, 220/380 V; 230/400 V
Rated frequency	50 Hz / 60 Hz	Rated input frequency	50 Hz / 60 Hz
THDv (@linear load)	< 3%		

OUTPUT AC — GRID SIDE

Rated output power	125 kW
Max. apparent output power	125 kVA
Rated grid voltage	3/N/PE, 220/380 V; 230/400 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	189.9 A / 180.4 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%

EFFICIENCY & PROTECTION

Max. efficiency	97.5%
EU efficiency	97.2%
BAT charged / discharged to AC max. efficiency	97.0%

Anti-islanding protection	Yes
Output over current protection	Yes
Short circuit protection	Yes
Integrated DC switch	Yes
DC reverse-polarity protection	Yes
Protection class / Over voltage category	I / DC II, AC III
Surge protection	DC Type II / AC Type II
Integrated AFCI 2.0	Optional (Brazil: Yes)

GENERAL DATA

Max. power per phase (grid & back-up)	41.66 kW
Dimensions (W × H × D)	1174 × 814 × 400 mm
Weight	170 kg
Topology	Transformerless
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0 - 100%
Ingress protection	IP66
Max. operation altitude	3000 m

STANDARDS & COMPLIANCE

Grid connection standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-188/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018:2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARÇO DE 2022; Brazil: 100K/125K NBR 16149, NBR 16150, IEC 62116.

FEATURES & INTERFACES

PV connection	MC4 Quick connection plug
Battery connection	Terminal connector
AC connection	Terminal block
Display	7.0" LCD display & Bluetooth + APP
Communication interface	Standard: WIFI+LAN+Bluetooth, CAN-BMS × 2, CAN-Parallel × 2, LAN, RS485-Meter, RS485, DRM, DI × 5, DO × 4; Optional: 4G

NOTE The certification standards shown are planned standards. Please confirm the specific time of obtaining the standards with the local team.