

ALPHA - STORION 500KTL



Charger Mode

AC input voltage	400V(360V~440V)
AC input current	720A(850A max)
AC input power	500kW(550kW max)
AC frequency	50/60Hz(±2.5Hz)
Battery charge voltage	750Vdc(630Vdc-900Vdc)
Battery charge current	667A(873A max)
Battery strings	1/4/8

AC Utility-interactive Mode

Battery discharge voltage	750Vdc(630Vdc-900Vdc)
Battery discharge current	667A(873A max)
AC output voltage	400V(360V~440V)
AC output current	720A
AC output power	500kW
AC frequency	50/60Hz(±2.5Hz)
AC output PF	0.8 leading to 0.8 lagging(Controllable)

AC Stand-alone Mode

Battery discharge voltage	750Vdc(630Vdc-900Vdc)
Battery discharge current	667A(873A max)
AC output voltage	400V(360V~440V configurable)
AC output current	720A(850A max)
AC output power	500kW(550kW max)
AC frequency	50/60Hz
AC output PF	0.8 leading to 0.8 lagging(Load-depend)
Output overload capability	105%~115% 10min; 115%~125% 1min; 125%~150% 200ms

SYSTEM

Peak efficiency	98.20%
Protection	OTP, AC OVP/UV, OFP/UFP, EPO, AC Phase Reverse, Fan/Relay Failure, OLP, DC GFDI, Anti-islanding (on/off)

Configurable protection limits	Upper/Lower AC Voltage/Frequency limit, Battery EOD voltage.
Installation	Floor-standing
AC connection	3P+PE
Isolation	Non-isolation
Cooling	Forced air cooling
Noise	<70dB
Enclosure	IP20/NEMA1
Max elevation	3000m/10000feet (> 2000m/6500feet derating)
Operating temp.	-20°C to+50°C (>45°C power derating)
Humidity	0~95%(No condensing)
Size (W*H*D)	1100*2160*800(mm) / 43.3*85*31.5 (Inches)
Weight	600kg/1320Lbs

COMMUNICATION

Display	Touch Screen
EMS protocol	ModBus TCP/IP , MESA
Socket	CAN, Ethernet, RS485
BMS protocol	CAN, ModBus RTU, MESA

STANDARD & CERTIFICATES

Safety	IEC62476
EMC	IEC61000

GRID SUPPORT FUNCTIONS

H/LVRT	Yes
H/LFRT	Yes
Ramp rates	Yes
Fixed PF	Yes
Volt/Watt	Yes
Volt/Var	Yes
Freq/Watt	Yes