

Features

- STORAGE M-EK-TER
- High power density
- Bi-directional Power Conversion System
- Wall-mounted, making a small footprint
- Split-phase supported
- Grid-support functions
- Virtual Synchronous Generator (VSG) technology optional for parallel off-grid application*



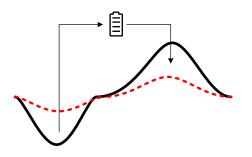
Specification

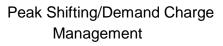
Utility-interactive Mode

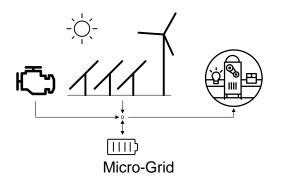
Battery charge/discharge voltage	200V~750V
	(350~750V Full Power in 3-phase mode,
	220~750V Full Power in single phase mode)
Battery charge/discharge current	90A Max
AC voltage	480V (423V~528V), 3-phase or single phase
AC current	36A (3-phase)
	43A (single phase mode)
Nominal power	30kW (3-phase)
	20kW (single phase mode)
AC frequency	60Hz (59.5Hz~60.5Hz)
AC PF	Listed: 0.8~1 leading or lagging (Controllable)
	Actual: 0.1~1 leading or lagging (Controllable)
Stand-alone Mode	
Battery discharge voltage	200V~750V
	(350~750V Full Power in 3-phase mode,
	220~750V Full Power in single phase mode)
Battery discharge current	90A Max
AC output voltage	480V (±5% configurable)**, 3-phase or single phase
AC output current	36A (3-phase)
	43A (single phase mode)
Nominal AC output power	30kW (3-phase)
	20kW (single phase mode)

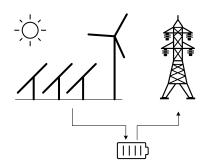
AC frequency	60Hz
AC output PF	Listed: 0.8~1 leading or lagging (Load-depend)
	Actual: 0.1~1 leading or lagging (Load-depend)
Overload Capability	105%~115% 10min;
	115%~125% 1min;
	125%~150% 200ms
Physical	
Cooling	Forced air cooling with replaceable fan module
Noise	<65dB
Enclosure	IP32/NEMA1
Max elevation	3000m/10000feet (> 2000m/6500feet derating)
Operating temp.	-20°C to 60°C (De-rating over 45°C)
Humidity	0~95% (No condensing)
Size (W*H*D)	470*660*176mm/
	18.5*26*6.95 inches
Weight	43kg / 95Lbs
Installation	Wall-mounted
Other	
Peak efficiency	97.3%
CEC efficiency	96.5%
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase
	Reverse, Fan/Relay Failure, OLP, GFDI, Anti-
	islanding
Configurable protection limits	Upper/Lower AC Voltage/Frequency limit, Battery
	EOD voltage.
	3-Phase+N+PE
AC connection	Split-phase (Extra transformer required, derated to
	20kW)
Isolation	Non-isolation
Certification	ETL listed conforming to UL1741/UL1741SA, CPUC
	RULE 21, IEEE1547
	CEC (CA gosolar) listed

Applications

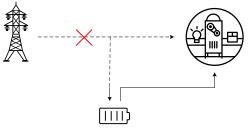






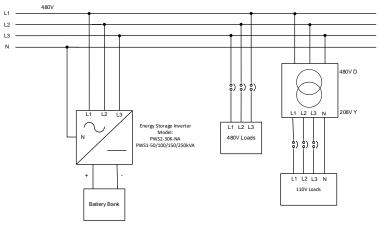


Customer Self Supply

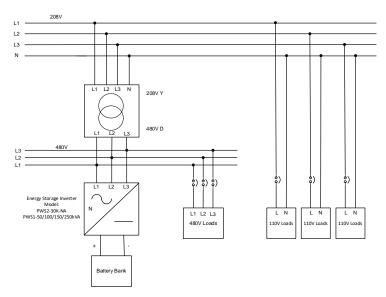


Backup Power

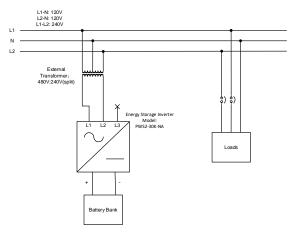
Distribution system connection patterns

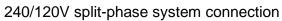


480V distribution system connection

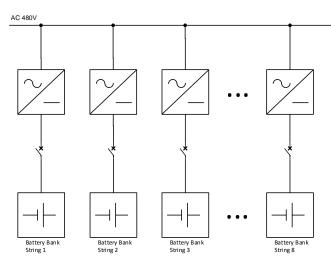


208V distribution system connection

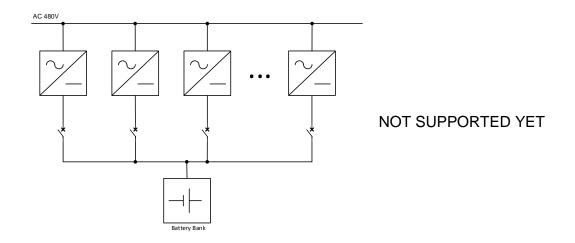




Parallel operation connection patterns



Grid-tied: Supported Off-grid: Supported (up to 6)



* in three-phase three-wire only

** the neutral terminal of PWS2-30K-NA cannot support too much current, if 277V single phase loads in a 480V 3-phase system are used in stand-alone mode, an isolation transformer is required to provide the neutral current capability.