

#### 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\*



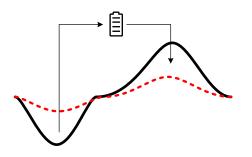
## **Specification**

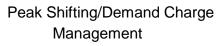
### **Utility-interactive Mode**

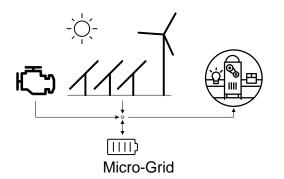
Battery charge/discharge voltage	200V~750V
	(350~750V Full Power in 3-phase mode,
	220~750V Full Power in single phase mode)
Battery charge/discharge current	90A Max
AC voltage	480V (423V~528V), 3-phase or single phase
AC current	36A (3-phase)
	43A (single phase mode)
Nominal power	30kW (3-phase)
	20kW (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)

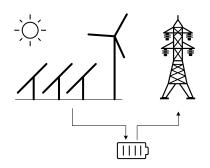
AC frequency	60Hz
AC output PF	Listed: 0.8~1 leading or lagging (Load-depend)
	Actual: 0.1~1 leading or lagging (Load-depend)
Overload Capability	105%~115% 10min;
	115%~125% 1min;
	125%~150% 200ms
Physical	
Cooling	Forced air cooling with replaceable fan module
Noise	<65dB
Enclosure	IP32/NEMA1
Max elevation	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

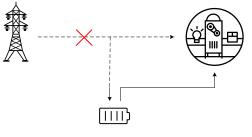






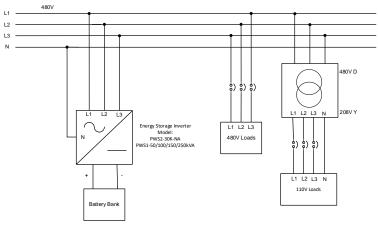


Customer Self Supply

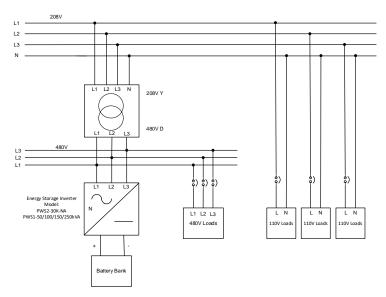


Backup Power

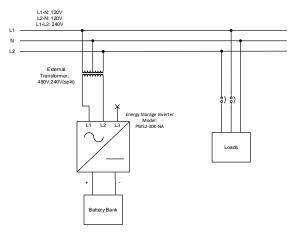
## **Distribution system connection patterns**

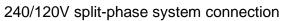


480V distribution system connection

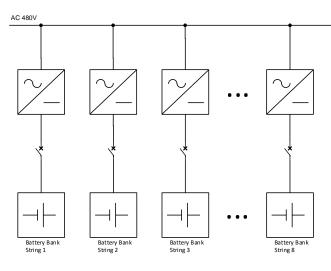


208V distribution system connection

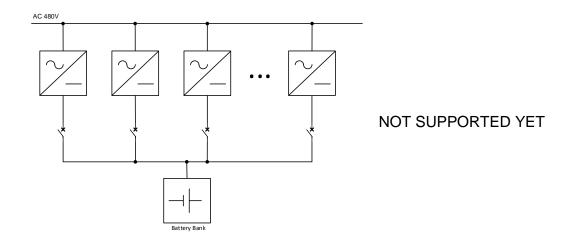




## Parallel operation connection patterns



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.