

# **TPC66000**

**Datasheet** 

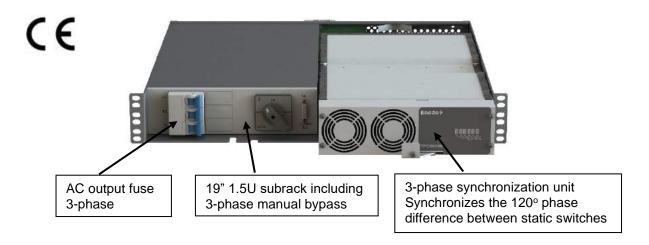








# 3-phase Synchronization Unit for DAC60000 Inverters



# 3-PHASE INVERTER SYSTEMS 4.5kVA - 22.5kVA

Modular 3-phase inverter systems 3 x 1.5 - 7.5kVA can be built with TPC synchronization unit and DAC60000 inverters. System includes one 19" 1.5U rack for 3-phase manual bypass and sync unit, which controls 3 separate 1-phase systems each including one static switch and 1-6 pcs of inverters. Secured 400/230VAC three phase power can be supplied to star connected loads.



# **Features**

- Modular architecture, 3-phase systems are built by same inverter modules as 1-phase systems
- Small size, light weight, standard 19" rack
- Flexibility to define power capacity and on-line/off-line default supply independently for each phase
- SNMP for remote access, RS-232 with standard PC for local monitoring and parameter setting

# User programmable parameters

- On-line/Off-line configuration
- Minimum and maximum inverter RMS voltage conformity
- Minimum and maximum mains RMS voltage conformity
- Minimum and maximum mains frequency conformity
- Maximum allowed mains frequency change rate

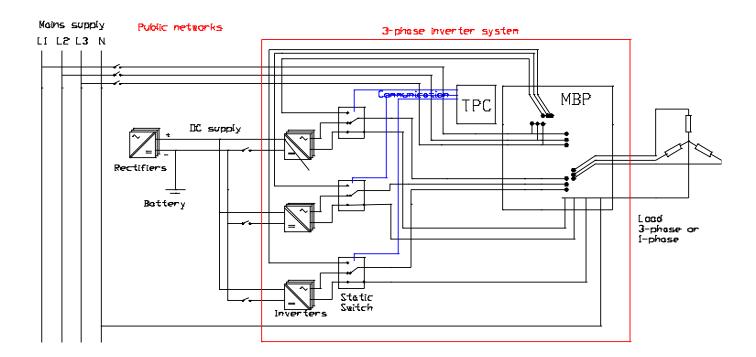


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<b>3-PHASE SYNCHR</b>	PHASE SYNCHRONIZATION MODULE	
Туре	Description	
TPC66100FR	3-phase synchronization plug-in module, 220 x 64 x 409 mm, 2kg	

19" 1.5U POWE	1.5U POWERFRAMES (sub-racks)	
Туре	Description	
MBP68500	Sub-rack including 3-phase manual bypass, AC-output fuses and position for TPC sync unit, 19" x	
	1.5U x 480mm, 5kg	
MBP68502	Sub-rack including 3-phase manual bypass and position for TPC sync unit, 19" x 1.5U x 480mm,	
	5kg	



(Check DRW03400)



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# **SPECIFICATION**

# **ELECTRICAL**

Mains voltage 400/230VAC (L1-L2-L3, N, PE)
Inverter DC supply Depending on the battery bank

System output voltage 400/230VAC (L1-L2-L3, N, PE)

Power range 7.5kVA static switch
Optional power range 30kVA static switch
Synchronizing frequency
Mains input connectors L1, L2, L3, N, PE

Inverter/static switch input Inverter system output to static switch

Static switch inputs/outputs to man. bypass

AC outputs connectors L1, L2, L3, N, PE

All connectors are located on rear panel

3-phase star connected mains

24VDC, 48VDC, 60VDC, 110VDC, 125VDC 3-phase star connected loads or 1-phase loads

3 x 1.5 – 7.5kVA 3 x 1.5 – 30kVA

User programmable 40-70 Hz 10mm<sup>2</sup> screw terminals

With AC bus bars, M5 ring terminals 10mm<sup>2</sup> screw terminals L1, L2, L3, N, PE

10mm<sup>2</sup> screw terminals

# **CONTROLS**

3-phase manual bypass Rotating switch K&N CA40, max current 40A, short circuit max 950A (1s)

4 positions: Off-Mains-Sync-Auto

Input protection External fuse in mains input of each phase MCB 40A B-, C- or D-curve or gG fuse 40A

Output protection, loads 3-phase manual bypass unit C32A 3-phase MCB

# **STANDARDS**

Safety EN 60950-1

EMC Emissions without filter EN61000-6-4, EN 55022A Emissions with filter EN61000-6-3, EN 55022B

Immunity EN61000-6-2

# **ALARMS AND INDICATORS**

LED indications TPC unit front panel Power On – Synchronized – Phase 1 OK –

Relay alarms

Alarms from static switch in each phase

Phase 2 OK – Phase 3 OK - Fault
Fault in system, Primary supply failure

Remote monitoring through RS-232

# **MECHANICALS**

Dimensions & weight See page 1

Enclosure hot galvanized steel IP20
Front plate painted RAL7035

Finger protection Polycarbonate plate Covers rear panel's screw terminals

# **ENVIRONMENTAL**

Temperature range

Cooling

Operating 0...45 °C full power, 45...60 °C reduced power

Natural