## **Tests Results for the TWIST 1.1.2**

Test: Biggg

Leg: 1

Board serial number: 4

Converter type: TWIST 1.1.2

Power supply type: EAPSI9750

Load type: Active load

Results for test:

TestAccuracy

TestEfficiency

TestCoefficients

## **Tests parameters**

LoadInternalSafetyCurrent_A	10
LoadInternalSafetyPower_W	180
NumberOfPointsPerDuty	2
duty_step_Percent	5
NumberOfStepInDutySweep	2
starting_duty_cycle_Percent	5
AccVHighCalibrationDutyPercent	50
AccVHighCalibrationLowCurrent_mA	1000
AcclHighCalibrationDuty_Percent	50
AcclHighCalibrationVHigh_mV	48000
AccVLowCalibrationLowCurrent_mA	1000
AccVLowCalibrationVHigh_mV	96000
AccILowCalibrationDuty_Percent	50
AccILowCalibrationVHigh_mV	48000
AccNumberOfStepInVLowDutySweep	15
AccNumberOfVHighStep	20
AccStepMinVHigh_mV	15000
AccStepMaxVHigh_mV	96000
AcclHighNumberOfCurrentStep	20
AcclHighStepMinCurrent_mA	100
AcclHighStepMaxCurrent_mA	5000
AccILowNumberOfCurrentStep	20

AccILowStepMinCurrent_mA 5000  EffNumberOfVHighStep 3  EffStepMinVHigh_mV 30000  EffStepMaxVHigh_mV 50000  EffNumberOfIHighStep 6  EffStepMinIHigh_mA 500  EffStepMaxIHigh_mA 5500  CoeffStepMaxIHigh_mA 5500  CoeffVHighCalibrationDutyPercent 50  CoeffVHighCalibrationDutyPercent 50  CoeffIllighCalibrationVHigh_mV 48000  CoeffVLowCalibrationDutyPercent 50  CoeffVLowCalibrationDutyPercent 50  CoeffILowCalibrationDutyPercent 50  CoeffILowCalibrationVHigh_mV 48000  CoeffILowCalibrationDutyPercent 50  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 5000  CoeffStepMinVHigh_mV 5000  CoeffStepMinVHigh_mV 5000  CoeffStepMinVHigh_mV 5000  CoeffStepMaxVHigh_mV 5000  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000  CoeffStepMaxCurrent_mA 5000		1
EffNumberOfVHighStep 3  EffStepMinVHigh_mV 30000  EffStepMaxVHigh_mV 50000  EffNumberOflHighStep 6  EffStepMinlHigh_mA 500  EffStepMaxlHigh_mA 5500  CoeffNumberOfTWISTMeas 5  CoeffVHighCalibrationDutyPercent 50  CoeffVHighCalibrationLowCurrent_mA 1000  CoeffIlhighCalibrationDuty_Percent 50  CoeffIlhighCalibrationVHigh_mV 48000  CoeffVLowCalibrationVHigh_mV 96000  CoeffVLowCalibrationDuty_Percent 50  CoeffILowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 96000  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxUHigh_mV 96000  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	<u> </u>	100
EffStepMinVHigh_mV 50000  EffNumberOflHighStep 6  EffStepMinlHigh_mA 500  EffStepMaxlHigh_mA 5500  CoeffNumberOfTWISTMeas 5  CoeffVHighCalibrationDutyPercent 50  CoeffVHighCalibrationLowCurrent_mA 1000  CoefflIhighCalibrationVHigh_mV 48000  CoeffVLowCalibrationVHigh_mV 96000  CoeffILowCalibrationDuty_Percent 50  CoeffILowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 96000  CoeffStepMinVHigh_mV 48000  CoeffStepMaxVHigh_mV 15000  CoeffStepMaxVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffStepMinCurrent_mA 1000  CoeffStepMinCurrent_mA 1000  CoeffStepMinCurrent_mA 5000	AccILowStepMaxCurrent_mA	5000
EffStepMaxVHigh_mV 50000  EffNumberOflHighStep 6  EffStepMinlHigh_mA 500  EffStepMaxlHigh_mA 5500  CoeffNumberOfTWISTMeas 5  CoeffVHighCalibrationDutyPercent 50  CoeffVHighCalibrationLowCurrent_mA 1000  CoefflHighCalibrationVHigh_mV 48000  CoeffVLowCalibrationVHigh_mV 96000  CoeffVLowCalibrationDuty_Percent 50  CoefflLowCalibrationVHigh_mV 96000  CoefflLowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	EffNumberOfVHighStep	3
EffNumberOflHighStep EffStepMinlHigh_mA 500  EffStepMaxlHigh_mA 5500  CoeffNumberOfTWISTMeas 5 CoeffVHighCalibrationDutyPercent 50 CoeffUHighCalibrationLowCurrent_mA 1000  CoefflHighCalibrationDuty_Percent 50  CoefflHighCalibrationVHigh_mV 48000  CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationVHigh_mV 96000  CoefflLowCalibrationDuty_Percent 50  CoefflLowCalibrationVHigh_mV 48000  CoefflLowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMinVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	EffStepMinVHigh_mV	30000
EffStepMinlHigh_mA 5500  EffStepMaxlHigh_mA 5500  CoeffNumberOfTWISTMeas 5  CoeffVHighCalibrationDutyPercent 50  CoeffVHighCalibrationDuty_Percent 50  CoefflHighCalibrationVHigh_mV 48000  CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationVHigh_mV 96000  CoefflLowCalibrationDuty_Percent 50  CoefflLowCalibrationDuty_Percent 50  CoefflLowCalibrationDuty_Percent 50  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 96000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMinCurrent_mA 100  CoeffStepMinCurrent_mA 5000	EffStepMaxVHigh_mV	50000
EffStepMaxlHigh_mA 5500  CoeffNumberOfTWISTMeas 5  CoeffVHighCalibrationDutyPercent 50  CoeffVHighCalibrationLowCurrent_mA 1000  CoefflHighCalibrationDuty_Percent 50  CoefflHighCalibrationVHigh_mV 48000  CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationVHigh_mV 96000  CoefflLowCalibrationDuty_Percent 50  CoefflLowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 48000  CoeffStepMinVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHighStep 5  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	<b>EffNumberOflHighStep</b>	6
CoeffNumberOfTWISTMeas CoeffVHighCalibrationDutyPercent CoeffVHighCalibrationLowCurrent_mA CoeffIHighCalibrationDuty_Percent CoeffIHighCalibrationVHigh_mV CoeffVLowCalibrationLowCurrent_mA CoeffVLowCalibrationVHigh_mV CoeffVLowCalibrationDuty_Percent CoeffILowCalibrationDuty_Percent CoeffILowCalibrationVHigh_mV CoeffStepMinVHigh_mV CoeffStepMinVHigh_mV CoeffStepMinVHigh_mV CoeffStepMaxVHigh_mV CoeffStepMaxVHigh_mV CoeffStepMaxVHigh_mV CoeffStepMinCurrent_mA CoeffStepMinCurrent_mA 5000	EffStepMinIHigh_mA	500
CoeffVHighCalibrationDutyPercent 50 CoefflHighCalibrationLowCurrent_mA 1000 CoefflHighCalibrationDuty_Percent 50 CoefflHighCalibrationVHigh_mV 48000 CoeffVLowCalibrationLowCurrent_mA 1000 CoeffVLowCalibrationVHigh_mV 96000 CoefflLowCalibrationDuty_Percent 50 CoefflLowCalibrationVHigh_mV 48000 CoeffStepMinVHigh_mV 15000 CoeffStepMaxVHigh_mV 96000 CoeffStepMaxVHigh_mV 96000 CoeffStepMaxVHighStep 5 CoeffStepMinCurrent_mA 100 CoeffStepMaxCurrent_mA 5000	EffStepMaxIHigh_mA	5500
CoeffVHighCalibrationLowCurrent_mA 1000  CoeffIHighCalibrationDuty_Percent 50  CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationVHigh_mV 96000  CoeffILowCalibrationDuty_Percent 50  CoeffILowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHigh_mV 96000  CoeffStepMinCurrent_mA 100  CoeffStepMinCurrent_mA 5000	CoeffNumberOfTWISTMeas	5
CoeffIHighCalibrationDuty_Percent 50  CoeffIHighCalibrationVHigh_mV 48000  CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationVHigh_mV 96000  CoeffILowCalibrationDuty_Percent 50  CoeffILowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffStepMaxVHighStep 5  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	CoeffVHighCalibrationDutyPercent	50
CoefflHighCalibrationVHigh_mV 48000  CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationVHigh_mV 96000  CoefflLowCalibrationDuty_Percent 50  CoefflLowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffNumberOfVHighStep 5  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	CoeffVHighCalibrationLowCurrent_mA	1000
CoeffVLowCalibrationLowCurrent_mA 1000  CoeffVLowCalibrationVHigh_mV 96000  CoeffILowCalibrationDuty_Percent 50  CoeffILowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffNumberOfVHighStep 5  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	CoeffIHighCalibrationDuty_Percent	50
CoeffVLowCalibrationVHigh_mV 96000  CoeffILowCalibrationDuty_Percent 50  CoeffILowCalibrationVHigh_mV 48000  CoeffStepMinVHigh_mV 15000  CoeffStepMaxVHigh_mV 96000  CoeffNumberOfVHighStep 5  CoeffStepMinCurrent_mA 100  CoeffStepMaxCurrent_mA 5000	CoeffIHighCalibrationVHigh_mV	48000
CoefflLowCalibrationDuty_Percent50CoefflLowCalibrationVHigh_mV48000CoeffStepMinVHigh_mV15000CoeffStepMaxVHigh_mV96000CoeffNumberOfVHighStep5CoeffStepMinCurrent_mA100CoeffStepMaxCurrent_mA5000	CoeffVLowCalibrationLowCurrent_mA	1000
CoeffStepMinVHigh_mV 48000 CoeffStepMinVHigh_mV 15000 CoeffStepMaxVHigh_mV 96000 CoeffNumberOfVHighStep 5 CoeffStepMinCurrent_mA 100 CoeffStepMaxCurrent_mA 5000	CoeffVLowCalibrationVHigh_mV	96000
CoeffStepMinVHigh_mV 15000 CoeffStepMaxVHigh_mV 96000 CoeffNumberOfVHighStep 5 CoeffStepMinCurrent_mA 100 CoeffStepMaxCurrent_mA 5000	CoeffILowCalibrationDuty_Percent	50
CoeffStepMaxVHigh_mV 96000 CoeffNumberOfVHighStep 5 CoeffStepMinCurrent_mA 100 CoeffStepMaxCurrent_mA 5000	CoeffILowCalibrationVHigh_mV	48000
CoeffNumberOfVHighStep 5 CoeffStepMinCurrent_mA 100 CoeffStepMaxCurrent_mA 5000	CoeffStepMinVHigh_mV	15000
CoeffStepMinCurrent_mA 100 CoeffStepMaxCurrent_mA 5000	CoeffStepMaxVHigh_mV	96000
CoeffStepMaxCurrent_mA 5000	CoeffNumberOfVHighStep	5
·	CoeffStepMinCurrent_mA	100
CoeffNumberOfCurrentStep 5	CoeffStepMaxCurrent_mA	5000
	CoeffNumberOfCurrentStep	5

## **Converter Calibration Coefficients**

Board SN	4.0
Voltage Gain side 1	45.021
Voltage Offset side 1	-91759.0
Correlation Coefficient	1.0
Voltage Gain Entry	68.102
Voltage Offset Entry	524.0
Correlation Coefficient	1.0
Current Gain side 1	4.609
Current Offset side 1	-9622.0
Correlation Coefficient	1.0
Current Gain Entry	5.194
Current Offset Entry	-10633.0
Correlation Coefficient	0.999



